

September 23, 2010

Mr. Joshua Barber (3HS21) Remedial Project Manager Eastern PA Branch USEPA 1650 Arch Street Philadelphia, PA 19103-2029

Re: Tyson Superfund Site Semiannual Monitoring Report Period January – June 2010

Dear Mr. Barber:

BASF Corporation (formerly Ciba) is pleased to submit the above referenced semiannual monitoring report for 2010.

The report contains the sample results for the monitoring of the Groundwater Treatment Plant (GWTP), the Schuylkill River, and the results of on-going operations and maintenance activities relating to the GWTP and the Wet Soil Cover (WSC) system.

Results of the latest semiannual monitoring confirm that the combined environmental engineering controls consisting of the Groundwater Treatment Plant (GWTP) and the Wet Soil Cover (WSC) are performing as designed and minimizing the risk of hazardous releases to the environment.

For the above monitoring period six of the six contaminants of concern were removed from the final discharge of treated groundwater to the Schuylkill River. The latest river sampling results continue to confirm that river locations adjacent to the Site remain free of major site-specific contaminants.

If you have questions or need additional information, please contact me at (732) 914-2517 or by fax at (732) 914-2909.

Sincerely,

Dorren K. McNichols Compliance Manager

Dones X. Workels

c: Consent Decree List

# SEMIANNUAL MONITORING REPORT BASF CORPORATION UPPER MERION TOWNSHIP MONTGOMERY COUNTY, PENNSYLVANIA

# **MONITORING PERIOD**

January – June 2010

**September 23, 2010** 

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# SAMPLING & MONITORING SEMIANNUAL REPORT

### Introduction

On March 23, 2005, Ciba Specialty Chemicals Corporation, now BASF Corporation as of April 1, 2010, submitted a request for a modification to the quarterly monitoring program for the Tyson's Superfund Site located in Upper Merion Township, Montgomery County, Pennsylvania. The modification would reduce monitoring from quarterly to semiannual events.

The United States Environmental Protection Agency (EPA) and the Pennsylvania Department of Environmental Protection (PADEP), after completing a review of the request, approved the request. The semiannual monitoring program was initiated in January 2007, and EPA Test Method 8260/8270 is used to monitor a suite of chemicals with a focus on the following six compounds of concern:

- 1. 1,2,3-Trichlorpropane
- 2. Xylenes
- 3. Aniline
- 4. Phenol
- 5. Methylene Chloride
- 6. Vinyl Chloride

### Field Activities

Lancaster Laboratory personnel visited the Site on January 29, 2010, and collected samples from the Groundwater Treatment Plant (GWTP) influent and effluent. Samples were also collected at the four locations in the Schuylkill River (see Figure 4, p.7). Lancaster Laboratories, Commonwealth of Pennsylvania Lab Certification No. 36-037, performed the sample analyses and the certificates of analysis are attached. The sample results are summarized in Tables 1 and 2.

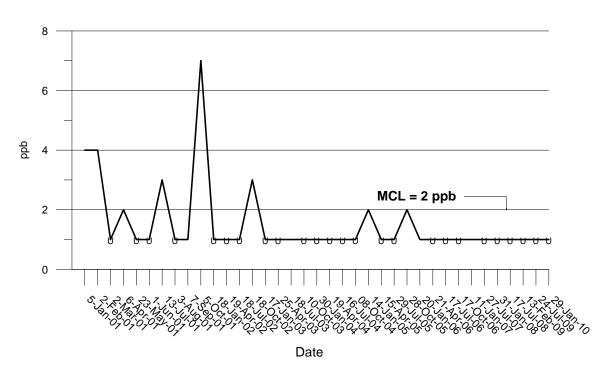
# Discussion

Of the six compounds of concern monitored in the GWTP effluent, all were removed in the treated discharge to the Schuylkill River. The major contaminant at the Site, 1,2,3-Trichloropropane (TCP), was removed by the GAC treatment. The compound vinyl chloride is of interest since it can be found in the final discharge on an intermittent basis. Although it has been detected in 12 out of the last 37 sampling episodes, the MCL of 2 ppb for vinyl chloride has only been exceeded in 5 out of these 12 detects, the last occurring in October, 2002. At this time, the permit requirement is to monitor only in the final discharge. An approximate 9 year history for vinyl chloride in the treated effluent is plotted and shown in Figure 1.

# **BASF Corporation Tyson Superfund Site Semiannual Monitoring Program**

### **Groundwater Treatment Plant Effluent**

### **Vinyl Chloride History**



"U" - Non detect value

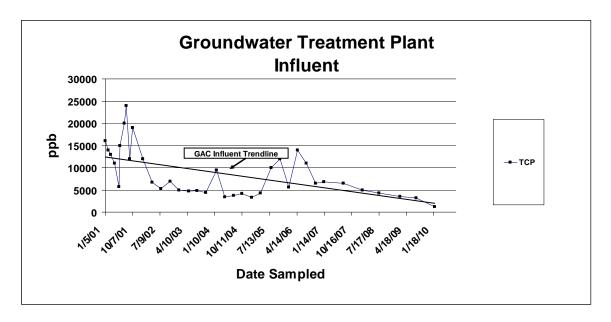
Figure 1. History of vinyl chloride monitored in the final discharge to the Schuylkill River

Table 1 summarizes the compounds of concern that are permit specific by PADEP<sup>1</sup>, as well as, those compounds requested by the USEPA<sup>2</sup>. Table 2 lists all compounds detected for the most recent sampling episode. The GWTP continues to perform as expected removing 99+ percent contamination from the groundwater before discharging to the Schuylkill River.

<sup>&</sup>lt;sup>1</sup> Letter dated March 17, 1988, to Ms. Karline Tierney, Manager Ciba-Geigy Corporation, from Gary Moulder, Project Officer, PADER

<sup>&</sup>lt;sup>2</sup> Letter dated September 6, 2001, to Mr. Cohen, Compliance Manager Ciba Specialty Chemicals Corp., from Eugene Dennis, RPM, USEPA

For the current monitoring period the site-specific contaminant, TCP registered 1,200 ppb for the influent and non-detect after treatment/discharge for the effluent. An approximate 9 year history of TCP to the GWTP is plotted and shown in Figure 2. The TCP in the influent has been trending down and the effluent is consistently well below the permit limit of 600 ppb TCP for a 30 day average. In addition, the Schuylkill River continues to remain free of TCP.



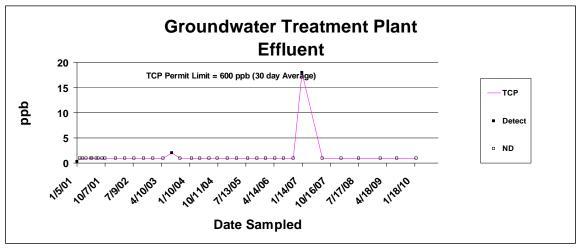


Figure 2. History of 1,2,3-Trichloropropane for the GWTP

Review of the Schuylkill River monitoring results from Table 2 shows no contamination present in the river that is site-specific. The non site-specific compounds present in the river sampling include chloroform, and trihalomethanes (THM), derivatives of chloroform. The THM source is unknown; however, the Federal MCL for Total THM is 80 ppb, well above the current river concentration.

Figure 3 shows the pounds per year of contaminants treated by the Groundwater Treatment Plant. For the current reporting period, January through June 2010, 621 pounds of contaminants were treated. The 2010 data is a yearly estimate based on the January through June data.

**Contaminants Treated by GWTP** 

# 

Figure 3. Pounds of Contaminants Removed by the GWTP

## Conclusion

The results of the Site analyses demonstrate environmental engineering controls are performing as expected and minimizing the threat of hazardous releases to the environment. The hazardous contaminants identified by PADEP and the EPA were removed from the environment by the GWTP.

BASF (formerly Ciba) initiated semiannual sampling in January 2007. The results of samplings continue to confirm the removal of contaminants by the Site environmental controls.

The next semiannual sampling is scheduled for July 2010.

Table 1

BASF Corporation
Tyson Superfund Site
Upper Merion Township, Montgomery County, Pennsylvania.

# Semiannual Monitoring Program - Compounds of Concern January - June 2010

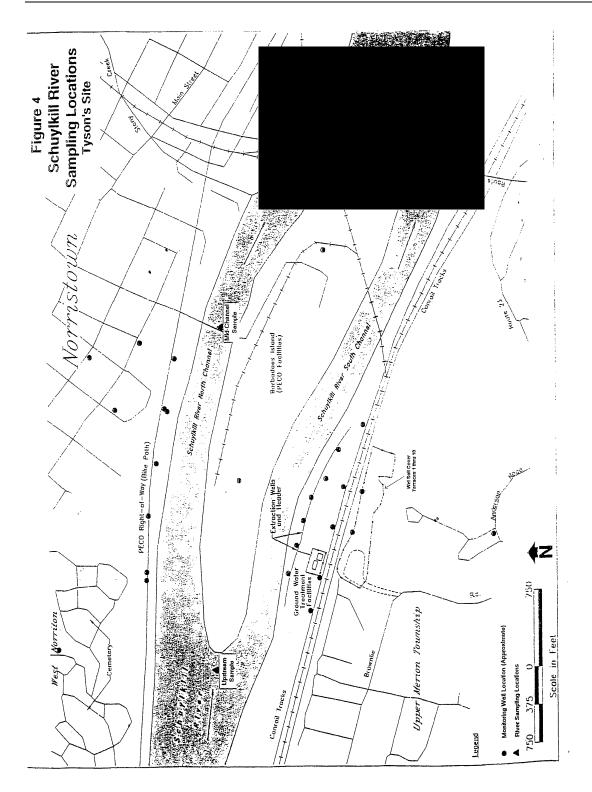
Sample Location	Sample Date	Constituent	Units	Value
GWTP Discharge	29-Jan-10	1,2,3-TRICHLOROPROPANE	μg/L	1U
GWTP Discharge	29-Jan-10	ANILINE	μg/L	0.9U
GWTP Discharge	29-Jan-10	METHYLENE CHLORIDE	μg/L	2U
GWTP Discharge	29-Jan-10	PHENOL	μg/L	0.9U
GWTP Discharge	29-Jan-10	VINYL CHLORIDE	μg/L	1U
GWTP Discharge	29-Jan-10	XYLENES, TOTAL	μg/L	U8.0
GWTP Influent	29-Jan-10	1,2,3-TRICHLOROPROPANE	μg/L	1200
GWTP Influent	29-Jan-10	METHYLENE CHLORIDE	μg/L	2U
GWTP Influent	29-Jan-10	VINYL CHLORIDE	μg/L	2
GWTP Influent	29-Jan-10	XYLENES, TOTAL	μg/L	280
River Channel	29-Jan-10	1,2,3-TRICHLOROPROPANE	μg/L	0.2U
River Channel	29-Jan-10	METHYLENE CHLORIDE	μg/L	0.3U
River Channel	29-Jan-10	VINYL CHLORIDE	μg/L	0.1U
River Channel	29-Jan-10	XYLENES, TOTAL	μg/L	0.3U
River Crib	29-Jan-10	1,2,3-TRICHLOROPROPANE	μg/L	0.2U
River Crib	29-Jan-10	METHYLENE CHLORIDE	μg/L	0.3U
River Crib	29-Jan-10	VINYL CHLORIDE	μg/L	0.1U
River Crib	29-Jan-10	XYLENES, TOTAL	μg/L	0.3U
River Flume	29-Jan-10	1,2,3-TRICHLOROPROPANE	μg/L	0.2U
River Flume	29-Jan-10 29-Jan-10	METHYLENE CHLORIDE	μg/L μg/L	0.2U 0.3U
River Flume	29-Jan-10 29-Jan-10	VINYL CHLORIDE	μg/L μg/L	0.3U
River Flume	29-Jan-10 29-Jan-10	XYLENES, TOTAL	. •	0.1U 0.3U
River Fluitie	29-Jan-10	ATLENES, TOTAL	μg/L	0.30
River Upstream	29-Jan-10	1,2,3-TRICHLOROPROPANE	μg/L	0.2U
River Upstream	29-Jan-10	METHYLENE CHLORIDE	μg/L	0.3U
River Upstream	29-Jan-10	VINYL CHLORIDE	μg/L	0.1U
River Upstream	29-Jan-10	XYLENES, TOTAL	μg/L	0.3U

U - Non detect with the MDL stated

Table 2

BASF Corporation
Tyson Superfund Site
Semiannual Monitoring Program
All Compounds Detected for January 29, 2010 Sampling Event

Sample Location	Constituent	Units	Value
GWTP Influent	1,1-DICHLOROETHANE	μg/L	2
GWTP Influent	1,2,3-TRICHLOROPROPANE	μg/L	1200
GWTP Influent	1,2-DICHLOROPROPANE	μg/L	1
GWTP Influent	BENZENE	μg/L	6
GWTP Influent	CHLOROBENZENE	μg/L	18
GWTP Influent	CHLOROFORM	μg/L	0.8
GWTP Influent	ETHYLBENZENE	μg/L	46
GWTP Influent	TETRACHLOROETHYLENE	μg/L	5
GWTP Influent	TOLUENE	μg/L	92
GWTP Influent	TRICHLOROETHYLENE	μg/L	12
GWTP Influent	VINYL CHLORIDE	μg/L	2
GWTP Influent	XYLENES,TOTAL	μg/L	280
RIVERCRIB	CHLOROFORM	μg/L	0.3
RIVERCRIB	DICHLOROBROMOMETHANE	μg/L	0.1
_		1.0	_
RIVERFLUME	CHLOROFORM	μg/L	2.5
RIVERFLUME	DICHLOROBROMOMETHANE	μg/L	0.7



### OPERATIONS AND MAINTENANCE SEMIANNUAL REPORT

# **Introduction**

This report summarizes on-going operations and maintenance activities for the period of January 1, 2010 through June 30, 2010 relating to the Granulated Activated Carbon (GAC) groundwater treatment system and the Wet Soil Cover (WSC) system.

### **Summary**

As per the approved O & M schedule, the WSC irrigation system was inspected, prepared, and put into the summer operational mode on April 20th – 30th 2010. Sprinklers were replaced on Terrace 1, 2, 4 and 7 and repaired on terrace 8, 2 and 9. The system will remain in summer mode throughout October 2010. Repaired access roads through wet soil cover by DB7 area and various areas were patched. Tree trimming and tree removal along wet soil cover power lines. Bushes, ivy and overgrowth on and around fence line removed. Fence repaired around wet soil cover perimeter.

The Granular Activated Carbon (GAC) system and associated treatment equipment including the seep springs continued to operate as planned.

# **Details of Activities**

During the period (January 1, 2010 through June 30, 2010), the GAC system was on-line 4,230 hours, for a semi-annual on-stream efficiency of 97.4 %. The groundwater processed through the GAC system for the period was 44,728,200 gallons (average flow rate = 176.2 Gal/Min.)

During the period four 20,000-pound carbon changes were conducted. The spent carbon was manifested (001716038JJK, 001716039JJK, 001716041JJK, and 001716042JJK) to Calgon Corporation's Big Sandy Plant, located in Catlettsburg, KY for regeneration on 1/5/10, 3/16/10 and two changes on 5/24/10. The two additional carbon changes were done to complete an internal inspection of both carbon units and to replace the valves in the piping manifold for both units. This was completed within one week and new carbon was added to both units.

Routine maintenance activities, which include landscaping, housekeeping, daily inspections of all plant process and WSC equipment, the East and West headers, extraction well pumps and extraction well valve boxes continued on the normal preventative maintenance schedule. Other minor maintenance tasks were completed as necessary.

## **Health and Safety**

There were no OSHA recordable accidents or incidents during the period of January 2010 through June 2010. A total of 22 safety meetings were conducted during the period. Site safety inspections were conducted weekly and posted throughout the site.

Table 3
GAC PROCESSDATA

		BACK	WASTE	ELEC.		
MONTH	GALLONS	FLUSH	GENERATED	USED	ON STREAM	OPER.
2010	PROCESSED	(Gallons)	(Gallons)	(KWHrs.)	EFFICIENCY	HRS.
January	8327700	108400	240	28.19	100%	737
February	7330700	78000	255	24.95	100%	672
March	8881300	113600	252	24.31	99%	653
April	8215900	78000	255	8.86	100%	720
May	6386500	97200	240	5.91	87%	648
June	5586100	67600	247	2.77	100%	717

# APPENDIX A LABORATORY ANALYTICAL TEST DATA



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### ANALYTICAL RESULTS

Prepared for:

Ciba Specialty Chemicals Corp Oak Ridge Parkway Bldg 743 Toms River NJ 08753

732-914-2517

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

February 09, 2010

Project: Tysons Semi-Annual #0344010

Samples arrived at the laboratory on Friday, January 29, 2010. The PO# for this group is T0001567/T0216301. The group number for this submittal is 1180663.

Client Sample Description	<u>Lancaster Labs (LLI) #</u>
RIVERUPSTR-012910 Grab Water	5895790
RIVERCHNL-012910 Grab Water	5895791
RIVERCRIB-012910 Grab Water	5895792
RIVERFLUME-012910 Grab Water	5895793
TB-01-012910 Water	5895794

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC	Ciba Specialty Chemicals Corp	Attn: Fred Goelz
COPY TO		
<b>ELECTRONIC</b>	Ciba Specialty Chemicals Corp	Attn: Dorren McNichols
COPY TO		
ELECTRONIC	Ciba Specialty Chemicals Corp	Attn: Laura McMahon
COPY TO		



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Questions? Contact your Client Services Representative Barbara A Weyandt at (717) 656-2300

Respectfully Submitted,

Richard Karam Manager



As Received

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Page 1 of 3

Sample Description: RIVERUPSTR-012910 Grab Water

LIMS#

COC: 221914 RIVERUPSTR

LLI Sample # WW 5895790 LLI Group # 1180663

DΔ

Project Name: Tysons Semi-Annual #0344010

Collected: 01/29/2010 08:30 by LAB Account Number: 04285

Submitted: 01/29/2010 12:15 Ciba Specialty Chemicals Corp

Reported: 02/09/2010 at 16:54 Oak Ridge Parkway

Discard: 02/24/2010 Bldg 743

Toms River NJ 08753

RVRUP

CAT			As Received	As Received	Dilution
No.	Analysis Name	CAS Number	Result	Method	Factor
1.0.	_		Nebule	Detection Limit	140001
GC/MS	Volatiles EPA 524.2	Rev. 4.1	ug/l	ug/l	
03600	Acetone	67-64-1	N.D.	3.0	1
03600	Acrylonitrile	107-13-1	N.D.	2.0	1
03600	Allyl Chloride	107-05-1	N.D.	0.1	1
03643	Benzene	71-43-2	N.D.	0.1	1
03643	Bromobenzene	108-86-1	N.D.	0.1	1
03643	Bromochloromethane	74-97-5	N.D.	0.1	1
03643	Bromodichloromethane	75-27-4	N.D.	0.1	1
03643	Bromoform	75-25-2	N.D.	0.2	1
03643	Bromomethane	74-83-9	N.D.	0.1	1
03600	2-Butanone	78-93-3	N.D.	2.0	1
03643	n-Butylbenzene	104-51-8	N.D.	0.2	1
03643	sec-Butylbenzene	135-98-8	N.D.	0.1	1
03643	tert-Butylbenzene	98-06-6	N.D.	0.1	1
03600	Carbon Disulfide	75-15-0	N.D.	0.4	1
03643	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03643	Chlorobenzene	108-90-7	N.D.	0.1	1
03600	1-Chlorobutane	109-69-3	N.D.	0.2	1
03643	Chloroethane	75-00-3	N.D.	0.2	1
03643	Chloroform	67-66-3	N.D.	0.2	1
03643	Chloromethane	74-87-3	N.D.	0.1	1
03643	2-Chlorotoluene	95-49-8	N.D.	0.2	1
03643	4-Chlorotoluene	106-43-4	N.D.	0.1	1
03643	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	1
03643	Dibromochloromethane	124-48-1	N.D.	0.4	1
03643	1,2-Dibromoethane	124-48-1	N.D.	0.1	1
03643	Dibromomethane	74-95-3	N.D.	0.1	1
					1
03600 03643	trans-1,4-Dichloro-2-butene 1,2-Dichlorobenzene	110-57-6 95-50-1	N.D.	1.0	1
03643	·		N.D.	0.1	
	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1 1
03643 03643	1,4-Dichlorobenzene Dichlorodifluoromethane	106-46-7	N.D.	0.1	1
		75-71-8	N.D.	0.2	
03643	1,1-Dichloroethane	75-34-3	N.D.	0.1	1
03643	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03643	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03643	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03643	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03643	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03643	1,3-Dichloropropane	142-28-9	N.D.	0.1	1
03643	2,2-Dichloropropane	594-20-7	N.D.	0.2	1
03643	1,1-Dichloropropene	563-58-6	N.D.	0.1	1
03643	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	1
03643	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	1
03600	Ethyl Ether	60-29-7	N.D.	0.2	1
03600	Ethyl Methacrylate	97-63-2	N.D.	0.1	1
03643	Ethylbenzene	100-41-4	N.D.	0.1	1
03643	Hexachlorobutadiene	87-68-3	N.D.	0.2	1
03600	Hexachloroethane	67-72-1	N.D.	0.1	1
03600	2-Hexanone	591-78-6	N.D.	0.6	1



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Sample Description: RIVERUPSTR-012910 Grab Water

LIMS#

COC: 221914 RIVERUPSTR

LLI Sample # WW 5895790 LLI Group # 1180663

D.7

Project Name: Tysons Semi-Annual #0344010

Collected: 01/29/2010 08:30 by LAB Account Number: 04285

Submitted: 01/29/2010 12:15 Ciba Specialty Chemicals Corp

Reported: 02/09/2010 at 16:54 Oak Ridge Parkway

Discard: 02/24/2010 Bldg 743

Toms River NJ 08753

As Received

RVRUP

CAT No.	Analysis Name	CAS Number	As Received Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles EPA 524.2	Rev. 4.1	ug/l	ug/l	
03643	Isopropylbenzene	98-82-8	N.D.	0.1	1
03643	p-Isopropyltoluene	99-87-6	N.D.	0.1	1
03600	Methacrylonitrile	126-98-7	N.D.	1.0	1
03600	Methyl Acrylate	96-33-3	N.D.	0.5	1
03600	Methyl Iodide	74-88-4	N.D.	0.1	1
03600	Methyl Methacrylate	80-62-6	N.D.	0.2	1
03600	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	1
03600	4-Methyl-2-pentanone	108-10-1	N.D.	0.6	1
03643	Methylene Chloride	75-09-2	N.D.	0.3	1
03643	Naphthalene	91-20-3	N.D.	0.2	1
03600	Pentachloroethane	76-01-7	N.D.	0.1	1
03643	n-Propylbenzene	103-65-1	N.D.	0.1	1
03643	Styrene	100-42-5	N.D.	0.1	1
03643	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	1
03643	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	1
03643	Tetrachloroethene	127-18-4	N.D.	0.1	1
03600	Tetrahydrofuran	109-99-9	N.D.	2.0	1
03643	Toluene	108-88-3	N.D.	0.1	1
03643	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.2	1
03643	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03643	, ,	71-55-6	N.D.	0.1	1
03643	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03643	Trichloroethene	79-01-6	N.D.	0.1	1
03643	Trichlorofluoromethane	75-69-4	N.D.	0.2	1
03643	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	1
03643	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	1
03643	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	1
03643	Vinyl Chloride	75-01-4	N.D.	0.1	1
03643	m+p-Xylene	179601-23-1	N.D.	0.2	1
03643	o-Xylene	95-47-6	N.D.	0.1	1

A surrogate recovery is outside of QC limits for the GC/MS volatile fraction. The analysis was repeated and the reanalysis surrogate recovery was within specification; however, trans-1,4-dichloro-2-butene did not meet initial calibration requirements in the reanalysis. Results reported here are from the initial determination.

### General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/11 This sample was collected following the protocol specified by each method listed in the laboratory sample analysis record.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.



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Page 3 of 3

Sample Description: RIVERUPSTR-012910 Grab Water

LIMS#

COC: 221914 RIVERUPSTR

LLI Sample # WW 5895790 LLI Group # 1180663

coup " lio

Project Name: Tysons Semi-Annual #0344010

Collected: 01/29/2010 08:30 by LAB Account Number: 04285

Submitted: 01/29/2010 12:15 Ciba Specialty Chemicals Corp

Reported: 02/09/2010 at 16:54 Oak Ridge Parkway

Discard: 02/24/2010 Bldg 743

Toms River NJ 08753

RVRUP

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03600	Additional Compounds by 524.2	EPA 524.2 Rev. 4	.1 1	G100321AA	02/01/2010 15:29	Anita M Dale	1
03643	EPA Method 524.2	EPA 524.2 Rev. 4	.1 1	G100321AA	02/01/2010 15:29	Anita M Dale	1



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Page 1 of 3

Sample Description: RIVERCHNL-012910 Grab Water

LIMS#

COC: 221914 RIVERCHNL

LLI Sample # WW 5895791 LLI Group # 1180663

PΑ

Project Name: Tysons Semi-Annual #0344010

Collected: 01/29/2010 08:45 by LAB Account Number: 04285

Submitted: 01/29/2010 12:15 Ciba Specialty Chemicals Corp

Reported: 02/09/2010 at 16:54 Oak Ridge Parkway

Discard: 02/24/2010 Bldg 743

Toms River NJ 08753

RVRCH

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles EPA 524.2	Rev. 4.1	ug/l	ug/l	
03600	Acetone	67-64-1	N.D.	3.0	1
03600	Acrylonitrile	107-13-1	N.D.	2.0	1
03600	Allyl Chloride	107-05-1	N.D.	0.1	1
03643	Benzene	71-43-2	N.D.	0.1	1
03643	Bromobenzene	108-86-1	N.D.	0.1	1
03643	Bromochloromethane	74-97-5	N.D.	0.1	1
03643	Bromodichloromethane	75-27-4	N.D.	0.1	1
03643	Bromoform	75-25-2	N.D.	0.2	1
03643	Bromomethane	74-83-9	N.D.	0.1	1
03600	2-Butanone	78-93-3	N.D.	2.0	1
03643	n-Butylbenzene	104-51-8	N.D.	0.2	1
03643	sec-Butylbenzene	135-98-8	N.D.	0.1	1
03643	tert-Butylbenzene	98-06-6	N.D.	0.1	1
03600	Carbon Disulfide	75-15-0	N.D.	0.4	1
03643	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03643	Chlorobenzene	108-90-7	N.D.	0.1	1
03600	1-Chlorobutane	109-69-3	N.D.	0.2	1
03643	Chloroethane	75-00-3	N.D.	0.2	1
03643	Chloroform	67-66-3	N.D.	0.1	1
03643	Chloromethane	74-87-3	N.D.	0.2	1
03643	2-Chlorotoluene	95-49-8	N.D.	0.1	1
03643	4-Chlorotoluene	106-43-4	N.D.	0.2	1
03643	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.4	1
03643	Dibromochloromethane	124-48-1	N.D.	0.1	1
03643	1,2-Dibromoethane	106-93-4	N.D.	0.1	1
03643	Dibromomethane	74-95-3	N.D.	0.1	1
03600	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	1.0	1
03643	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03643	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03643	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	1
03643	Dichlorodifluoromethane	75-71-8	N.D.	0.2	1
03643	1,1-Dichloroethane	75-34-3	N.D.	0.1	1
03643	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03643	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03643	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03643	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03643	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03643	1,3-Dichloropropane	142-28-9	N.D.	0.1	1
03643	2,2-Dichloropropane	594-20-7	N.D.	0.2	1
03643	1,1-Dichloropropene	563-58-6	N.D.	0.1	1
03643	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	1
03643	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	1
03600	Ethyl Ether	60-29-7	N.D.	0.2	1
03600	Ethyl Methacrylate	97-63-2	N.D.	0.1	1
03643	Ethylbenzene	100-41-4	N.D.	0.1	1
03643	Hexachlorobutadiene	87-68-3	N.D.	0.2	1
03600	Hexachloroethane	67-72-1	N.D.	0.1	1
03600	2-Hexanone	591-78-6	N.D.	0.6	1



As Received

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Page 2 of 3

Sample Description: RIVERCHNL-012910 Grab Water

LIMS#

COC: 221914 RIVERCHNL

LLI Sample # WW 5895791 LLI Group # 1180663

PΔ

Project Name: Tysons Semi-Annual #0344010

Collected: 01/29/2010 08:45 by LAB Account Number: 04285

Submitted: 01/29/2010 12:15 Ciba Specialty Chemicals Corp

Reported: 02/09/2010 at 16:54 Oak Ridge Parkway

Discard: 02/24/2010 Bldg 743

Toms River NJ 08753

RVRCH

CAT No.	Analysis Name	CAS Number	As Received Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles EPA 524.2	Rev. 4.1	ug/l	ug/l	
03643	Isopropylbenzene	98-82-8	N.D.	0.1	1
03643	p-Isopropyltoluene	99-87-6	N.D.	0.1	1
03600	Methacrylonitrile	126-98-7	N.D.	1.0	1
03600	Methyl Acrylate	96-33-3	N.D.	0.5	1
03600	Methyl Iodide	74-88-4	N.D.	0.1	1
03600	Methyl Methacrylate	80-62-6	N.D.	0.2	1
03600	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	1
03600	4-Methyl-2-pentanone	108-10-1	N.D.	0.6	1
03643	Methylene Chloride	75-09-2	N.D.	0.3	1
03643	Naphthalene	91-20-3	N.D.	0.2	1
03600	Pentachloroethane	76-01-7	N.D.	0.1	1
03643	n-Propylbenzene	103-65-1	N.D.	0.1	1
03643	Styrene	100-42-5	N.D.	0.1	1
03643	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	1
03643	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	1
03643	Tetrachloroethene	127-18-4	N.D.	0.1	1
03600	Tetrahydrofuran	109-99-9	N.D.	2.0	1
03643	Toluene	108-88-3	N.D.	0.1	1
03643	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.2	1
03643	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03643	, ,	71-55-6	N.D.	0.1	1
03643	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03643	Trichloroethene	79-01-6	N.D.	0.1	1
03643	Trichlorofluoromethane	75-69-4	N.D.	0.2	1
03643	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	1
03643	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	1
03643	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	1
03643	Vinyl Chloride	75-01-4	N.D.	0.1	1
03643	m+p-Xylene	179601-23-1	N.D.	0.2	1
03643	o-Xylene	95-47-6	N.D.	0.1	1

A surrogate recovery is outside of QC limits for the GC/MS volatile fraction. The analysis was repeated and the reanalysis surrogate recovery was within specification; however, trans-1,4-dichloro-2-butene did not meet initial calibration requirements in the reanalysis. Results reported here are from the initial determination.

### General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/11 This sample was collected following the protocol specified by each method listed in the laboratory sample analysis record.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.



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Sample Description: RIVERCHNL-012910 Grab Water

LIMS#

COC: 221914 RIVERCHNL

LLI Sample # WW 5895791 LLI Group # 1180663

Project Name: Tysons Semi-Annual #0344010

Account Number: 04285 Collected: 01/29/2010 08:45 by LAB

Submitted: 01/29/2010 12:15 Ciba Specialty Chemicals Corp

Reported: 02/09/2010 at 16:54 Oak Ridge Parkway Discard: 02/24/2010

Bldg 743

Toms River NJ 08753

RVRCH

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03600	Additional Compounds by 524.2	EPA 524.2 Rev. 4	.1 1	G100321AA	02/01/2010 15:51	Anita M Dale	1
03643	EPA Method 524.2	EPA 524.2 Rev. 4	.1 1	G100321AA	02/01/2010 15:51	Anita M Dale	1



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Sample Description: RIVERCRIB-012910 Grab Water

LIMS#

COC: 221914 RIVERCRIB

LLI Sample # WW 5895792 LLI Group # 1180663

PA

Project Name: Tysons Semi-Annual #0344010

Collected: 01/29/2010 09:30 by LAB Account Number: 04285

Submitted: 01/29/2010 12:15 Ciba Specialty Chemicals Corp

Reported: 02/09/2010 at 16:54 Oak Ridge Parkway

Discard: 02/24/2010 Bldg 743

Toms River NJ 08753

RVRCR

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles EPA 524.2	Rev. 4.1	ug/l	ug/l	
03600	Acetone	67-64-1	N.D.	3.0	1
03600	Acrylonitrile	107-13-1	N.D.	2.0	1
03600	Allyl Chloride	107-05-1	N.D.	0.1	1
03643	Benzene	71-43-2	N.D.	0.1	1
03643	Bromobenzene	108-86-1	N.D.	0.1	1
03643	Bromochloromethane	74-97-5	N.D.	0.1	1
03643	Bromodichloromethane	75-27-4	0.1	0.1	1
03643	Bromoform	75-25-2	N.D.	0.2	1
03643	Bromomethane	74-83-9	N.D.	0.1	1
03600	2-Butanone	78-93-3	N.D.	2.0	1
03643	n-Butylbenzene	104-51-8	N.D.	0.2	1
03643	sec-Butylbenzene	135-98-8	N.D.	0.1	1
03643	tert-Butylbenzene	98-06-6	N.D.	0.1	1
03600	Carbon Disulfide	75-15-0	N.D.	0.4	1
03643	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03643	Chlorobenzene	108-90-7	N.D.	0.1	1
03600	1-Chlorobutane	109-69-3	N.D.	0.2	1
03643	Chloroethane	75-00-3	N.D.	0.2	1
03643	Chloroform	67-66-3	0.3	0.1	1
03643	Chloromethane	74-87-3	N.D.	0.2	1
03643	2-Chlorotoluene	95-49-8	N.D.	0.1	1
03643	4-Chlorotoluene	106-43-4	N.D.	0.2	1
03643	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.4	1
03643	Dibromochloromethane	124-48-1	N.D.	0.1	1
03643	1,2-Dibromoethane	106-93-4	N.D.	0.1	1
03643	Dibromomethane	74-95-3	N.D.	0.1	1
03600	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	1.0	1
03643	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03643	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03643	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	1
03643	Dichlorodifluoromethane	75-71-8	N.D.	0.2	1
03643	1,1-Dichloroethane	75-34-3	N.D.	0.1	1
03643	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03643	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03643	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03643	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03643	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03643	1,3-Dichloropropane	142-28-9	N.D.	0.1	1
03643	2,2-Dichloropropane	594-20-7	N.D.	0.2	1
03643	1,1-Dichloropropene	563-58-6	N.D.	0.1	1
03643	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	1
03643	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	1
03600	Ethyl Ether	60-29-7	N.D.	0.2	1
03600	Ethyl Methacrylate	97-63-2	N.D.	0.1	1
03643	Ethylbenzene	100-41-4	N.D.	0.1	1
03643	Hexachlorobutadiene	87-68-3	N.D.	0.2	1
03600	Hexachloroethane	67-72-1	N.D.	0.1	1
03600	2-Hexanone	591-78-6	N.D.	0.6	1
55555	2 110110110	3,1 ,0 0		0.0	_



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Sample Description: RIVERCRIB-012910 Grab Water

LIMS#

COC: 221914 RIVERCRIB

LLI Sample # WW 5895792 LLI Group # 1180663

PΔ

Project Name: Tysons Semi-Annual #0344010

Collected: 01/29/2010 09:30 by LAB Account Number: 04285

Submitted: 01/29/2010 12:15 Ciba Specialty Chemicals Corp

Reported: 02/09/2010 at 16:54 Oak Ridge Parkway

Discard: 02/24/2010 Bldg 743

Toms River NJ 08753

As Received

**RVRCR** 

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles EPA 524.2	Rev. 4.1	ug/l	ug/l	
03643	Isopropylbenzene	98-82-8	N.D.	0.1	1
03643	p-Isopropyltoluene	99-87-6	N.D.	0.1	1
03600	Methacrylonitrile	126-98-7	N.D.	1.0	1
03600	Methyl Acrylate	96-33-3	N.D.	0.5	1
03600	Methyl Iodide	74-88-4	N.D.	0.1	1
03600	Methyl Methacrylate	80-62-6	N.D.	0.2	1
03600	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	1
03600	4-Methyl-2-pentanone	108-10-1	N.D.	0.6	1
03643	Methylene Chloride	75-09-2	N.D.	0.3	1
03643	Naphthalene	91-20-3	N.D.	0.2	1
03600	Pentachloroethane	76-01-7	N.D.	0.1	1
03643	n-Propylbenzene	103-65-1	N.D.	0.1	1
03643	Styrene	100-42-5	N.D.	0.1	1
03643	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	1
03643	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	1
03643	Tetrachloroethene	127-18-4	N.D.	0.1	1
03600	Tetrahydrofuran	109-99-9	N.D.	2.0	1
03643	Toluene	108-88-3	N.D.	0.1	1
03643	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.2	1
03643	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03643	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
03643	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03643	Trichloroethene	79-01-6	N.D.	0.1	1
03643	Trichlorofluoromethane	75-69-4	N.D.	0.2	1
03643	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	1
03643	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	1
03643	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	1
03643	Vinyl Chloride	75-01-4	N.D.	0.1	1
03643	m+p-Xylene	179601-23-1	N.D.	0.2	1
03643	o-Xylene	95-47-6	N.D.	0.1	1

A surrogate recovery is outside of QC limits for the GC/MS volatile fraction. The analysis was repeated and the reanalysis surrogate recovery was within specification; however, trans-1,4-dichloro-2-butene did not meet initial calibration requirements in the reanalysis. Results reported here are from the initial determination.

### General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/11 This sample was collected following the protocol specified by each method listed in the laboratory sample analysis record.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.



Reported: 02/09/2010 at 16:54

Discard: 02/24/2010

# Analysis Report

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Sample Description: RIVERCRIB-012910 Grab Water

LIMS#

COC: 221914 RIVERCRIB

LLI Sample # WW 5895792 LLI Group # 1180663

up " ====

Project Name: Tysons Semi-Annual #0344010

Collected: 01/29/2010 09:30 by LAB Account Number: 04285

Submitted: 01/29/2010 12:15 Ciba Specialty Chemicals Corp

Oak Ridge Parkway

Bldg 743

Toms River NJ 08753

RVRCR

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial	# Batch#	Analysis Date and Time	Analyst	Dilution Factor
03600	Additional Compounds by 524.2	EPA 524.2 Rev. 4	1.1 1	G100321AA	02/01/2010 16:12	Anita M Dale	1
03643	EPA Method 524.2	EPA 524.2 Rev. 4	1.1 1	G100321AA	02/01/2010 16:12	Anita M Dale	1



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Sample Description: RIVERFLUME-012910 Grab Water

LIMS#

COC: 221914 RIVERFLUME

LLI Sample # WW 5895793 LLI Group # 1180663

Project Name: Tysons Semi-Annual #0344010

by LAB Account Number: 04285 Collected: 01/29/2010 09:40

Submitted: 01/29/2010 12:15 Ciba Specialty Chemicals Corp

Oak Ridge Parkway Reported: 02/09/2010 at 16:54 Discard: 02/24/2010

Bldg 743

Toms River NJ 08753

RVRFL

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles EPA 524.2	Rev. 4.1	ug/l	ug/l	
03600	Acetone	67-64-1	N.D.	3.0	1
03600	Acrylonitrile	107-13-1	N.D.	2.0	1
03600	Allyl Chloride	107-05-1	N.D.	0.1	1
03643	Benzene	71-43-2	N.D.	0.1	1
03643	Bromobenzene	108-86-1	N.D.	0.1	1
03643	Bromochloromethane	74-97-5	N.D.	0.1	1
03643	Bromodichloromethane	75-27-4	0.7	0.1	1
03643	Bromoform	75-25-2	N.D.	0.2	1
03643	Bromomethane	74-83-9	N.D.	0.1	1
03600	2-Butanone	78-93-3	N.D.	2.0	1
03643	n-Butylbenzene	104-51-8	N.D.	0.2	1
03643	sec-Butylbenzene	135-98-8	N.D.	0.1	1
03643	tert-Butylbenzene	98-06-6	N.D.	0.1	1
03600	Carbon Disulfide	75-15-0	N.D.	0.4	1
03643	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03643	Chlorobenzene	108-90-7	N.D.	0.1	1
03600	1-Chlorobutane	109-69-3	N.D.	0.2	1
03643	Chloroethane	75-00-3	N.D.	0.2	1
03643	Chloroform	67-66-3	2.5	0.1	1
03643	Chloromethane	74-87-3	N.D.	0.2	1
03643	2-Chlorotoluene	95-49-8	N.D.	0.1	1
03643	4-Chlorotoluene	106-43-4	N.D.	0.2	1
03643	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.4	1
03643	Dibromochloromethane	124-48-1	N.D.	0.1	1
03643	1,2-Dibromoethane	106-93-4	N.D.	0.1	1
03643	Dibromomethane	74-95-3	N.D.	0.1	1
03600	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	1.0	1
03643	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03643	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03643	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	1
03643	Dichlorodifluoromethane	75-71-8	N.D.	0.2	1
03643	1,1-Dichloroethane	75-34-3	N.D.	0.1	1
03643	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03643	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03643	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03643	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03643	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03643	1,3-Dichloropropane	142-28-9	N.D.	0.1	1
03643	2,2-Dichloropropane	594-20-7	N.D.	0.2	1
03643	1,1-Dichloropropene	563-58-6	N.D.	0.1	1
03643	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	1
03643	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	1
03600	Ethyl Ether	60-29-7	N.D.	0.2	1
03600	Ethyl Methacrylate	97-63-2	N.D.	0.1	1
03643	Ethylbenzene	100-41-4	N.D.	0.1	1
03643	Hexachlorobutadiene	87-68-3	N.D.	0.2	1
03600	Hexachloroethane	67-72-1	N.D.	0.1	1
03600	2-Hexanone	591-78-6	N.D.	0.6	1



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Sample Description: RIVERFLUME-012910 Grab Water

LIMS#

COC: 221914 RIVERFLUME

LLI Sample # WW 5895793 LLI Group # 1180663

PΔ

Project Name: Tysons Semi-Annual #0344010

Collected: 01/29/2010 09:40 by LAB Account Number: 04285

Submitted: 01/29/2010 12:15 Ciba Specialty Chemicals Corp

Reported: 02/09/2010 at 16:54 Oak Ridge Parkway

Discard: 02/24/2010 Bldg 743

Toms River NJ 08753

As Received

RVRFL

CAT No.	Analysis Name	CAS Number	As Received Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles EPA 524.2	Rev. 4.1	ug/l	ug/l	
03643	Isopropylbenzene	98-82-8	N.D.	0.1	1
03643	p-Isopropyltoluene	99-87-6	N.D.	0.1	1
03600	Methacrylonitrile	126-98-7	N.D.	1.0	1
03600	Methyl Acrylate	96-33-3	N.D.	0.5	1
03600	Methyl Iodide	74-88-4	N.D.	0.1	1
03600	Methyl Methacrylate	80-62-6	N.D.	0.2	1
03600	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	1
03600	4-Methyl-2-pentanone	108-10-1	N.D.	0.6	1
03643	Methylene Chloride	75-09-2	N.D.	0.3	1
03643	Naphthalene	91-20-3	N.D.	0.2	1
03600	Pentachloroethane	76-01-7	N.D.	0.1	1
03643	n-Propylbenzene	103-65-1	N.D.	0.1	1
03643	Styrene	100-42-5	N.D.	0.1	1
03643	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	1
03643	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	1
03643	Tetrachloroethene	127-18-4	N.D.	0.1	1
03600	Tetrahydrofuran	109-99-9	N.D.	2.0	1
03643	Toluene	108-88-3	N.D.	0.1	1
03643	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.2	1
03643	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03643	, ,	71-55-6	N.D.	0.1	1
03643	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03643	Trichloroethene	79-01-6	N.D.	0.1	1
03643	Trichlorofluoromethane	75-69-4	N.D.	0.2	1
03643	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	1
03643	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	1
03643	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	1
03643	Vinyl Chloride	75-01-4	N.D.	0.1	1
03643	m+p-Xylene	179601-23-1	N.D.	0.2	1
03643	o-Xylene	95-47-6	N.D.	0.1	1

A surrogate recovery is outside of QC limits for the GC/MS volatile fraction. The analysis was repeated and the reanalysis surrogate recovery was within specification; however, trans-1,4-dichloro-2-butene did not meet initial calibration requirements in the reanalysis. Results reported here are from the initial determination.

### General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/11 This sample was collected following the protocol specified by each method listed in the laboratory sample analysis record.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.



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Sample Description: RIVERFLUME-012910 Grab Water

LIMS#

COC: 221914 RIVERFLUME

LLI Sample # WW 5895793 LLI Group # 1180663

Project Name: Tysons Semi-Annual #0344010

Account Number: 04285 Collected: 01/29/2010 09:40 by LAB

Submitted: 01/29/2010 12:15 Ciba Specialty Chemicals Corp

Reported: 02/09/2010 at 16:54 Oak Ridge Parkway Discard: 02/24/2010

Bldg 743

Toms River NJ 08753

RVRFL

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03600	Additional Compounds by 524.2	EPA 524.2 Rev. 4	4.1 1	G100321AA	02/01/2010 16:33	Anita M Dale	1
03643	EPA Method 524.2	EPA 524.2 Rev. 4	4.1 1	G100321AA	02/01/2010 16:33	Anita M Dale	1



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Page 1 of 3

Sample Description: TB-01-012910 Water

LIMS#

COC: 221914 TB-01

LLI Sample # WW 5895794 LLI Group # 1180663

PA

Project Name: Tysons Semi-Annual #0344010

Collected: 01/29/2010 08:30 Account Number: 04285

Submitted: 01/29/2010 12:15 Ciba Specialty Chemicals Corp

Reported: 02/09/2010 at 16:54 Oak Ridge Parkway

Discard: 02/24/2010 Bldg 743

Toms River NJ 08753

RVRTB

CAT			As Received	As Received Method	Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Factor
GC/MS	Volatiles EPA 524.2	Rev. 4.1	ug/l	ug/l	
03600	Acetone	67-64-1	N.D.	3.0	1
03600	Acrylonitrile	107-13-1	N.D.	2.0	1
03600	Allyl Chloride	107-05-1	N.D.	0.1	1
03643	Benzene	71-43-2	N.D.	0.1	1
03643	Bromobenzene	108-86-1	N.D.	0.1	1
03643	Bromochloromethane	74-97-5	N.D.	0.1	1
03643	Bromodichloromethane	75-27-4	N.D.	0.1	1
03643	Bromoform	75-25-2	N.D.	0.2	1
03643	Bromomethane	74-83-9	N.D.	0.1	1
03600	2-Butanone	78-93-3	N.D.	2.0	1
03643	n-Butylbenzene	104-51-8	N.D.	0.2	1
03643	sec-Butylbenzene	135-98-8	N.D.	0.1	1
03643	tert-Butylbenzene	98-06-6	N.D.	0.1	1
03600	Carbon Disulfide	75-15-0	N.D.	0.4	1
03643	Carbon Tetrachloride	56-23-5	N.D.	0.1	1
03643	Chlorobenzene	108-90-7	N.D.	0.1	1
03600	1-Chlorobutane	109-69-3	N.D.	0.2	1
03643	Chloroethane	75-00-3	N.D.	0.2	1
03643	Chloroform	67-66-3	N.D.	0.1	1
03643	Chloromethane	74-87-3	N.D.	0.2	1
03643	2-Chlorotoluene	95-49-8	N.D.	0.1	1
03643	4-Chlorotoluene	106-43-4	N.D.	0.2	1
03643	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.4	1
03643	Dibromochloromethane	124-48-1	N.D.	0.1	1
03643	1,2-Dibromoethane	106-93-4	N.D.	0.1	1
03643	Dibromomethane	74-95-3	N.D.	0.1	1
03600	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	1.0	1
03643	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	1
03643	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	1
03643	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	1
03643	Dichlorodifluoromethane	75-71-8	N.D.	0.2	1
03643	1,1-Dichloroethane	75-34-3	N.D.	0.1	1
03643	1,2-Dichloroethane	107-06-2	N.D.	0.1	1
03643	1,1-Dichloroethene	75-35-4	N.D.	0.1	1
03643	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	1
03643	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	1
03643	1,2-Dichloropropane	78-87-5	N.D.	0.1	1
03643	1,3-Dichloropropane	142-28-9	N.D.	0.1	1
03643	2,2-Dichloropropane	594-20-7	N.D.	0.2	1
03643	1,1-Dichloropropene	563-58-6	N.D.	0.1	1
03643	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	1
03643	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	1
03600	Ethyl Ether	60-29-7	N.D.	0.2	1
03600	Ethyl Methacrylate	97-63-2	N.D.	0.1	1
03643	Ethylbenzene	100-41-4	N.D.	0.1	1
03643	Hexachlorobutadiene	87-68-3	N.D.	0.2	1
03600	Hexachloroethane	67-72-1	N.D.	0.1	1
03600	2-Hexanone	591-78-6	N.D.	0.6	1



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Sample Description: TB-01-012910 Water

LIMS#

COC: 221914 TB-01

LLI Sample # WW 5895794 LLI Group # 1180663

PΔ

Project Name: Tysons Semi-Annual #0344010

Collected: 01/29/2010 08:30 Account Number: 04285

Submitted: 01/29/2010 12:15 Ciba Specialty Chemicals Corp

Reported: 02/09/2010 at 16:54 Oak Ridge Parkway

Bldg 743

Toms River NJ 08753

RVRTB

Discard: 02/24/2010

GC/MS   Volatiles   EPA 524.2   Rev. 4.1   ug/l   ug/l	CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
03643 p-Isopropyltoluene   99-87-6   N.D.   0.1   1   1   1   1   1   1   1   1   1	GC/MS	Volatiles EPA 524.2	Rev. 4.1	ug/l	ug/l	
03600         Methacrylonitrile         126-98-7         N.D.         1.0         1           03600         Methyl Acrylate         96-33-3         N.D.         0.5         1           03600         Methyl Iodide         74-88-4         N.D.         0.1         1           03600         Methyl Methacrylate         80-62-6         N.D.         0.2         1           03600         Methyl Tertiary Butyl Ether         1634-04-4         N.D.         0.1         1           03600         Methyl Tertiary Butyl Ether         1634-04-4         N.D.         0.1         1           03604         Methylene Chloride         75-09-2         N.D.         0.6         1           03643         Methylene Chloride         75-09-2         N.D.         0.3         1           03643         Naphthalene         91-20-3         N.D.         0.2         1           03643         Naphthalene         91-20-3         N.D.         0.1         1           03643         Naphthalene         91-20-3         N.D.         0.1         1           03643         Napthalene         10-40-7         N.D.         0.1         1           03643         1,1,1,2-Tethaloroethane	03643	Isopropylbenzene	98-82-8	N.D.	0.1	1
03600         Methyl Acrylate         96-33-3         N.D.         0.5         1           03600         Methyl Todide         74-88-4         N.D.         0.1         1           03600         Methyl Tertiary Butyl Ether         1634-04-4         N.D.         0.1         1           03600         Methyl Tertiary Butyl Ether         1634-04-4         N.D.         0.1         1           03600         Methyl-2-pentanone         108-10-1         N.D.         0.6         1           03643         Methylene Chloride         75-09-2         N.D.         0.3         1           03643         Naphthalene         91-20-3         N.D.         0.2         1           03643         Naphthalene         91-20-3         N.D.         0.1         1           03643         Naphthalene         76-01-7         N.D.         0.1         1           03643         n-Propylbenzene         103-65-1         N.D.         0.1         1           03643         1,1,2-Tetrachloroethane         630-20-6         N.D.         0.1         1           03643         1,1,2-Tetrachloroethane         79-34-5         N.D.         0.1         1           03643         Toluene	03643	p-Isopropyltoluene	99-87-6	N.D.	0.1	1
03600         Methyl Todide         74-88-4         N.D.         0.1         1           03600         Methyl Methacrylate         80-62-6         N.D.         0.2         1           03600         Methyl Tetriary Butyl Ether         1634-04-4         N.D.         0.1         1           03600         4-Methyl-2-pentanone         108-10-1         N.D.         0.6         1           03643         Methylene Chloride         75-09-2         N.D.         0.3         1           03643         Maphthalene         91-20-3         N.D.         0.2         1           03600         Pentachloroethane         76-01-7         N.D.         0.1         1           03643         Styrene         103-65-1         N.D.         0.1         1           03643         1,1,2,2-Tetrachloroethane         630-20-6         N.D.         0.1         1           03643         1,1,1,2-Tetrachloroethane         79-34-5         N.D.         0.1         1           03643         1,2,3-Trichloroethane         109-99-9         N.D.         0.1         1           03643         1,2,3-Trichloroethane         108-88-3         N.D.         0.1         1           03643         1,2,4	03600	Methacrylonitrile	126-98-7	N.D.	1.0	1
03600         Methyl Methacrylate         80-62-6         N.D.         0.2         1           03600         Methyl Tertiary Butyl Ether         1634-04-4         N.D.         0.1         1           03600         Methyl-2-pentanone         108-10-1         N.D.         0.6         1           03643         Methylene Chloride         75-09-2         N.D.         0.3         1           03643         Naphthalene         91-20-3         N.D.         0.2         1           03600         Pentachloroethane         76-01-7         N.D.         0.1         1           03643         n-Propylbenzene         103-65-1         N.D.         0.1         1           03643         Styrene         100-42-5         N.D.         0.1         1           03643         1,1,2-Tetrachloroethane         630-20-6         N.D.         0.1         1           03643         1,1,2-Tetrachloroethane         630-20-6         N.D.         0.1         1           03643         Tetrachloroethane         127-18-4         N.D.         0.1         1           03643         Tolloroethane         109-99-9         N.D.         0.1         1           03643         1,2,3-Trichloroetha	03600	Methyl Acrylate	96-33-3	N.D.	0.5	1
03600         Methyl Tertiary Butyl Ether         1634-04-4         N.D.         0.1         1           03600         4-Methyl-2-pentanone         108-10-1         N.D.         0.6         1           03643         Methylene Chloride         75-09-2         N.D.         0.3         1           03643         Naphthalene         91-20-3         N.D.         0.2         1           03643         Naphthalene         76-01-7         N.D.         0.1         1           03643         n-Propylbenzene         103-65-1         N.D.         0.1         1           03643         Styrene         100-42-5         N.D.         0.1         1           03643         1,1,2,2-Tetrachloroethane         630-20-6         N.D.         0.1         1           03643         1,1,2,2-Tetrachloroethane         79-34-5         N.D.         0.1         1           03643         1,1,2,2-Tetrachloroethane         109-99-9         N.D.         0.1         1           03643         Tetrachloroethene         127-18-4         N.D.         0.1         1           03643         Toluene         108-88-3         N.D.         0.1         1           03643         1,2,3-Trichloroetha	03600	Methyl Iodide	74-88-4	N.D.	0.1	1
03600       4-Methyl-2-pentanone       108-10-1       N.D.       0.6       1         03643       Methylene Chloride       75-09-2       N.D.       0.3       1         03643       Naphthalene       91-20-3       N.D.       0.2       1         03600       Pentachloroethane       76-01-7       N.D.       0.1       1         03643       n-Propylbenzene       103-65-1       N.D.       0.1       1         03643       1,1,1,2-Tetrachloroethane       630-20-6       N.D.       0.1       1         03643       1,1,2,2-Tetrachloroethane       630-20-6       N.D.       0.1       1         03643       1,1,2,2-Tetrachloroethane       79-34-5       N.D.       0.1       1         03643       1,1,2,2-Tetrachloroethane       127-18-4       N.D.       0.1       1         03643       Tetrachloroethene       127-18-4       N.D.       0.1       1         03643       Toluene       108-88-3       N.D.       0.1       1         03643       Toluene       108-88-3       N.D.       0.2       1         03643       1,2,3-Trichloroethane       71-55-6       N.D.       0.2       1         03643 <t< td=""><td>03600</td><td>Methyl Methacrylate</td><td>80-62-6</td><td>N.D.</td><td>0.2</td><td>1</td></t<>	03600	Methyl Methacrylate	80-62-6	N.D.	0.2	1
03600       4-Methyl-2-pentanone       108-10-1       N.D.       0.6       1         03643       Methylene Chloride       75-09-2       N.D.       0.3       1         03643       Naphthalene       91-20-3       N.D.       0.2       1         03600       Pentachloroethane       76-01-7       N.D.       0.1       1         03643       n-Propylbenzene       103-65-1       N.D.       0.1       1         03643       1,1,1,2-Tetrachloroethane       630-20-6       N.D.       0.1       1         03643       1,1,1,2-Tetrachloroethane       630-20-6       N.D.       0.1       1         03643       1,1,1,2-Tetrachloroethane       79-34-5       N.D.       0.1       1         03643       1,1,2,2-Tetrachloroethane       79-34-5       N.D.       0.1       1         03643       Tetrachloroethane       127-18-4       N.D.       0.1       1         03643       Tetrachloroethane       129-99-9       N.D.       0.1       1         03643       Toluene       108-88-3       N.D.       0.2       1         03643       1,2,3-Trichloroethane       71-55-6       N.D.       0.2       1         03643	03600	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.1	1
03643       Naphthalene       91-20-3       N.D.       0.2       1         03600       Pentachloroethane       76-01-7       N.D.       0.1       1         03643       n-Propylbenzene       103-65-1       N.D.       0.1       1         03643       Styrene       100-42-5       N.D.       0.1       1         03643       1,1,1,2-Tetrachloroethane       630-20-6       N.D.       0.1       1         03643       1,1,2,2-Tetrachloroethane       79-34-5       N.D.       0.1       1         03643       1,2,2-Tetrachloroethane       127-18-4       N.D.       0.1       1         03643       Tetrachloroethene       127-18-4       N.D.       0.1       1         03643       Toluene       108-88-3       N.D.       0.1       1         03643       Toluene       108-88-3       N.D.       0.1       1         03643       1,2,3-Trichlorobenzene       87-61-6       N.D.       0.2       1         03643       1,2,1-Trichloroethane       71-55-6       N.D.       0.1       1         03643       1,1,2-Trichloroethane       79-00-5       N.D.       0.1       1         03643       Trichloroethan	03600		108-10-1	N.D.	0.6	1
03600         Pentachloroethane         76-01-7         N.D.         0.1         1           03643         n-Propylbenzene         103-65-1         N.D.         0.1         1           03643         Styrene         100-42-5         N.D.         0.1         1           03643         1,1,2-Tetrachloroethane         630-20-6         N.D.         0.1         1           03643         1,1,2,2-Tetrachloroethane         79-34-5         N.D.         0.1         1           03643         1,1,2,2-Tetrachloroethane         127-18-4         N.D.         0.1         1           03643         Tetrachloroethene         127-18-4         N.D.         0.1         1           03643         Tetrahydrofuran         109-99-9         N.D.         0.1         1           03643         Toluene         108-88-3         N.D.         0.1         1           03643         1,2,3-Trichlorobenzene         87-61-6         N.D.         0.2         1           03643         1,2,4-Trichloroethane         71-55-6         N.D.         0.1         1           03643         1,1,1-Trichloroethane         79-00-5         N.D.         0.1         1           03643         Trichloroethen	03643	Methylene Chloride	75-09-2	N.D.	0.3	1
03643       n-Propylbenzene       103-65-1       N.D.       0.1       1         03643       Styrene       100-42-5       N.D.       0.1       1         03643       1,1,1,2-Tetrachloroethane       630-20-6       N.D.       0.1       1         03643       1,1,2,2-Tetrachloroethane       79-34-5       N.D.       0.1       1         03643       Tetrachloroethene       127-18-4       N.D.       0.1       1         03643       Tetrachloroethane       109-99-9       N.D.       2.0       1         03643       Toluene       108-88-3       N.D.       0.1       1         03643       Toluene       108-88-3       N.D.       0.1       1         03643       1,2,3-Trichlorobenzene       87-61-6       N.D.       0.2       1         03643       1,1,1-Trichloroethane       71-55-6       N.D.       0.1       1         03643       1,1,1-Trichloroethane       79-00-5       N.D.       0.1       1         03643       Trichlorofluoromethane       75-69-4       N.D.       0.1       1         03643       Trichloropropane       96-18-4       N.D.       0.2       1         03643       1,2,3-Tric	03643	Naphthalene	91-20-3	N.D.	0.2	1
03643       Styrene       100-42-5       N.D.       0.1       1         03643       1,1,1,2-Tetrachloroethane       630-20-6       N.D.       0.1       1         03643       1,1,2,2-Tetrachloroethane       79-34-5       N.D.       0.1       1         03643       Tetrachloroethene       127-18-4       N.D.       0.1       1         03603       Tetrahydrofuran       109-99-9       N.D.       0.1       1         03643       Toluene       108-88-3       N.D.       0.1       1         03643       1,2,3-Trichlorobenzene       87-61-6       N.D.       0.2       1         03643       1,2,4-Trichlorobenzene       120-82-1       N.D.       0.2       1         03643       1,1,1-Trichloroethane       71-55-6       N.D.       0.1       1         03643       1,1,2-Trichloroethane       79-00-5       N.D.       0.1       1         03643       Trichlorofluoromethane       79-01-6       N.D.       0.1       1         03643       Trichlorofluoromethane       75-69-4       N.D.       0.2       1         03643       1,2,3-Trichloropropane       96-18-4       N.D.       0.2       1         03643<	03600	Pentachloroethane	76-01-7	N.D.	0.1	1
03643       1,1,1,2-Tetrachloroethane       630-20-6       N.D.       0.1       1         03643       1,1,2,2-Tetrachloroethane       79-34-5       N.D.       0.1       1         03643       Tetrachloroethene       127-18-4       N.D.       0.1       1         03600       Tetrahydrofuran       109-99-9       N.D.       2.0       1         03643       Toluene       108-88-3       N.D.       0.1       1         03643       1,2,3-Trichlorobenzene       87-61-6       N.D.       0.2       1         03643       1,2,4-Trichlorobenzene       120-82-1       N.D.       0.2       1         03643       1,1,1-Trichloroethane       71-55-6       N.D.       0.1       1         03643       1,1,2-Trichloroethane       79-00-5       N.D.       0.1       1         03643       Trichlorofluoromethane       75-69-4       N.D.       0.1       1         03643       1,2,3-Trichloropropane       96-18-4       N.D.       0.2       1         03643       1,2,4-Trimethylbenzene       95-63-6       N.D.       0.1       1         03643       1,3,5-Trimethylbenzene       95-63-6       N.D.       0.1       1	03643	n-Propylbenzene	103-65-1	N.D.	0.1	1
03643       1,1,2,2-Tetrachloroethane       79-34-5       N.D.       0.1       1         03643       Tetrachloroethene       127-18-4       N.D.       0.1       1         03600       Tetrahydrofuran       109-99-9       N.D.       2.0       1         03643       Toluene       108-88-3       N.D.       0.1       1         03643       1,2,3-Trichlorobenzene       87-61-6       N.D.       0.2       1         03643       1,2,4-Trichlorobenzene       120-82-1       N.D.       0.2       1         03643       1,1,1-Trichloroethane       71-55-6       N.D.       0.1       1         03643       1,1,2-Trichloroethane       79-00-5       N.D.       0.1       1         03643       Trichloroethene       79-01-6       N.D.       0.1       1         03643       Trichlorofluoromethane       75-69-4       N.D.       0.2       1         03643       1,2,3-Trichloropropane       96-18-4       N.D.       0.2       1         03643       1,2,4-Trimethylbenzene       95-63-6       N.D.       0.1       1         03643       Vinyl Chloride       75-01-4       N.D.       0.1       1         03643	03643	Styrene	100-42-5	N.D.	0.1	1
03643       Tetrachloroethene       127-18-4       N.D.       0.1       1         03600       Tetrahydrofuran       109-99-9       N.D.       2.0       1         03643       Toluene       108-88-3       N.D.       0.1       1         03643       1,2,3-Trichlorobenzene       87-61-6       N.D.       0.2       1         03643       1,2,4-Trichlorobenzene       120-82-1       N.D.       0.2       1         03643       1,1,1-Trichloroethane       71-55-6       N.D.       0.1       1         03643       1,1,2-Trichloroethane       79-00-5       N.D.       0.1       1         03643       Trichloroethane       79-01-6       N.D.       0.1       1         03643       Trichloropfluoromethane       75-69-4       N.D.       0.2       1         03643       1,2,3-Trichloropropane       96-18-4       N.D.       0.2       1         03643       1,2,4-Trimethylbenzene       95-63-6       N.D.       0.1       1         03643       1,3,5-Trimethylbenzene       108-67-8       N.D.       0.1       1         03643       Winyl Chloride       75-01-4       N.D.       0.1       1         03643	03643	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	1
03600       Tetrahydrofuran       109-99-9       N.D.       2.0       1         03643       Toluene       108-88-3       N.D.       0.1       1         03643       1,2,3-Trichlorobenzene       87-61-6       N.D.       0.2       1         03643       1,2,4-Trichlorobenzene       120-82-1       N.D.       0.2       1         03643       1,1,1-Trichloroethane       71-55-6       N.D.       0.1       1         03643       1,1,2-Trichloroethane       79-00-5       N.D.       0.1       1         03643       Trichloroethane       79-01-6       N.D.       0.1       1         03643       Trichlorofluoromethane       75-69-4       N.D.       0.2       1         03643       1,2,3-Trichloropropane       96-18-4       N.D.       0.2       1         03643       1,2,4-Trimethylbenzene       95-63-6       N.D.       0.1       1         03643       1,3,5-Trimethylbenzene       108-67-8       N.D.       0.1       1         03643       Winyl Chloride       75-01-4       N.D.       0.1       1         03643       m+p-Xylene       179601-23-1       N.D.       0.2       1	03643	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	1
03643       Toluene       108-88-3       N.D.       0.1       1         03643       1,2,3-Trichlorobenzene       87-61-6       N.D.       0.2       1         03643       1,2,4-Trichlorobenzene       120-82-1       N.D.       0.2       1         03643       1,1,1-Trichloroethane       71-55-6       N.D.       0.1       1         03643       1,1,2-Trichloroethane       79-00-5       N.D.       0.1       1         03643       Trichloroethene       79-01-6       N.D.       0.1       1         03643       Trichlorofluoromethane       75-69-4       N.D.       0.2       1         03643       1,2,3-Trichloropropane       96-18-4       N.D.       0.2       1         03643       1,2,4-Trimethylbenzene       95-63-6       N.D.       0.1       1         03643       1,3,5-Trimethylbenzene       108-67-8       N.D.       0.1       1         03643       Winyl Chloride       75-01-4       N.D.       0.1       1         03643       m+p-Xylene       179601-23-1       N.D.       0.2       1	03643	Tetrachloroethene	127-18-4	N.D.	0.1	1
03643       1,2,3-Trichlorobenzene       87-61-6       N.D.       0.2       1         03643       1,2,4-Trichlorobenzene       120-82-1       N.D.       0.2       1         03643       1,1,1-Trichloroethane       71-55-6       N.D.       0.1       1         03643       1,1,2-Trichloroethane       79-00-5       N.D.       0.1       1         03643       Trichloroethene       79-01-6       N.D.       0.1       1         03643       Trichlorofluoromethane       75-69-4       N.D.       0.2       1         03643       1,2,3-Trichloropropane       96-18-4       N.D.       0.2       1         03643       1,2,4-Trimethylbenzene       95-63-6       N.D.       0.1       1         03643       1,3,5-Trimethylbenzene       108-67-8       N.D.       0.1       1         03643       Vinyl Chloride       75-01-4       N.D.       0.1       1         03643       m+p-Xylene       179601-23-1       N.D.       0.2       1	03600	Tetrahydrofuran	109-99-9	N.D.	2.0	1
03643       1,2,4-Trichlorobenzene       120-82-1       N.D.       0.2       1         03643       1,1,1-Trichloroethane       71-55-6       N.D.       0.1       1         03643       1,1,2-Trichloroethane       79-00-5       N.D.       0.1       1         03643       Trichloroethane       79-01-6       N.D.       0.1       1         03643       Trichlorofluoromethane       75-69-4       N.D.       0.2       1         03643       1,2,3-Trichloropropane       96-18-4       N.D.       0.2       1         03643       1,2,4-Trimethylbenzene       95-63-6       N.D.       0.1       1         03643       1,3,5-Trimethylbenzene       108-67-8       N.D.       0.1       1         03643       Vinyl Chloride       75-01-4       N.D.       0.1       1         03643       m+p-Xylene       179601-23-1       N.D.       0.2       1	03643	Toluene	108-88-3	N.D.	0.1	1
03643       1,1,1-Trichloroethane       71-55-6       N.D.       0.1       1         03643       1,1,2-Trichloroethane       79-00-5       N.D.       0.1       1         03643       Trichloroethane       79-01-6       N.D.       0.1       1         03643       Trichlorofluoromethane       75-69-4       N.D.       0.2       1         03643       1,2,3-Trichloropropane       96-18-4       N.D.       0.2       1         03643       1,2,4-Trimethylbenzene       95-63-6       N.D.       0.1       1         03643       1,3,5-Trimethylbenzene       108-67-8       N.D.       0.1       1         03643       Vinyl Chloride       75-01-4       N.D.       0.1       1         03643       m+p-Xylene       179601-23-1       N.D.       0.2       1	03643	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.2	1
03643       1,1,2-Trichloroethane       79-00-5       N.D.       0.1       1         03643       Trichloroethane       79-01-6       N.D.       0.1       1         03643       Trichlorofluoromethane       75-69-4       N.D.       0.2       1         03643       1,2,3-Trichloropropane       96-18-4       N.D.       0.2       1         03643       1,2,4-Trimethylbenzene       95-63-6       N.D.       0.1       1         03643       1,3,5-Trimethylbenzene       108-67-8       N.D.       0.1       1         03643       Vinyl Chloride       75-01-4       N.D.       0.1       1         03643       m+p-Xylene       179601-23-1       N.D.       0.2       1	03643	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	1
03643     Trichloroethene     79-01-6     N.D.     0.1     1       03643     Trichlorofluoromethane     75-69-4     N.D.     0.2     1       03643     1,2,3-Trichloropropane     96-18-4     N.D.     0.2     1       03643     1,2,4-Trimethylbenzene     95-63-6     N.D.     0.1     1       03643     1,3,5-Trimethylbenzene     108-67-8     N.D.     0.1     1       03643     Vinyl Chloride     75-01-4     N.D.     0.1     1       03643     m+p-Xylene     179601-23-1     N.D.     0.2     1	03643	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	1
03643       Trichlorofluoromethane       75-69-4       N.D.       0.2       1         03643       1,2,3-Trichloropropane       96-18-4       N.D.       0.2       1         03643       1,2,4-Trimethylbenzene       95-63-6       N.D.       0.1       1         03643       1,3,5-Trimethylbenzene       108-67-8       N.D.       0.1       1         03643       Vinyl Chloride       75-01-4       N.D.       0.1       1         03643       m+p-Xylene       179601-23-1       N.D.       0.2       1	03643	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	1
03643       1,2,3-Trichloropropane       96-18-4       N.D.       0.2       1         03643       1,2,4-Trimethylbenzene       95-63-6       N.D.       0.1       1         03643       1,3,5-Trimethylbenzene       108-67-8       N.D.       0.1       1         03643       Vinyl Chloride       75-01-4       N.D.       0.1       1         03643       m+p-Xylene       179601-23-1       N.D.       0.2       1	03643	Trichloroethene	79-01-6	N.D.	0.1	1
03643       1,2,4-Trimethylbenzene       95-63-6       N.D.       0.1       1         03643       1,3,5-Trimethylbenzene       108-67-8       N.D.       0.1       1         03643       Vinyl Chloride       75-01-4       N.D.       0.1       1         03643       m+p-Xylene       179601-23-1       N.D.       0.2       1	03643	Trichlorofluoromethane	75-69-4	N.D.	0.2	1
03643     1,3,5-Trimethylbenzene     108-67-8     N.D.     0.1     1       03643     Vinyl Chloride     75-01-4     N.D.     0.1     1       03643     m+p-Xylene     179601-23-1     N.D.     0.2     1	03643	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	1
03643       Vinyl Chloride       75-01-4       N.D.       0.1       1         03643       m+p-Xylene       179601-23-1       N.D.       0.2       1	03643	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	1
03643 m+p-Xylene 179601-23-1 N.D. 0.2 1	03643	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	1
	03643	Vinyl Chloride	75-01-4	N.D.	0.1	1
03643 o-Xylene 95-47-6 N.D. 0.1 1	03643	m+p-Xylene	179601-23-1	N.D.	0.2	1
	03643	o-Xylene	95-47-6	N.D.	0.1	1

A surrogate recovery is outside of QC limits for the GC/MS volatile fraction. The analysis was repeated and the reanalysis surrogate recovery was within specification; however, trans-1,4-dichloro-2-butene did not meet initial calibration requirements in the reanalysis. Results reported here are from the initial determination.

### General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/11 This sample was collected following the protocol specified by each method listed in the laboratory sample analysis record.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.



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Sample Description: TB-01-012910 Water

LIMS#

COC: 221914 TB-01

LLI Sample # WW 5895794

LLI Group # 1180663

PA

Project Name: Tysons Semi-Annual #0344010

Collected: 01/29/2010 08:30 Account Number: 04285

Submitted: 01/29/2010 12:15 Ciba Specialty Chemicals Corp

Reported: 02/09/2010 at 16:54 Oak Ridge Parkway

Discard: 02/24/2010 Bldg 743

Toms River NJ 08753

RVRTB

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03600	Additional Compounds by 524.2	EPA 524.2 Rev. 4	.1 1	G100321AA	02/01/2010 16:55	Anita M Dale	1
03643	EPA Method 524.2	EPA 524.2 Rev. 4	.1 1	G100321AA	02/01/2010 16:55	Anita M Dale	1



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# Quality Control Summary

Client Name: Ciba Specialty Chemicals Corp Group Number: 1180663

Reported: 02/09/10 at 04:54 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the

# Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: G100321AA	Sample numb	er(s): 58	95790-5895	794				
Acetone	N.D.	3.0	ug/1	89		70-130		
Acrylonitrile	N.D.	2.0	ug/1	110		70-130		
Allyl Chloride	N.D.	0.1	uq/l	103		70-130		
Benzene	N.D.	0.1	ug/1	101		70-130		
Bromobenzene	N.D.	0.1	ug/l	103		70-130		
Bromochloromethane	N.D.	0.1	uq/l	103		70-130		
Bromodichloromethane	N.D.	0.1	ug/1	104		70-130		
Bromoform	N.D.	0.2	ug/l	101		70-130		
Bromomethane	N.D.	0.1	ug/l	126		70-130		
2-Butanone	N.D.	2.0	ug/l	95		70-130		
n-Butylbenzene	N.D.	0.2	ug/l	110		70-130		
sec-Butylbenzene	N.D.	0.1	uq/l	106		70-130		
tert-Butylbenzene	N.D.	0.1	ug/l	104		70-130		
Carbon Disulfide	N.D.	0.4	ug/l	78		70-130		
Carbon Tetrachloride	N.D.	0.1	uq/l	97		70-130		
Chlorobenzene	N.D.	0.1	ug/l	102		70-130		
1-Chlorobutane	N.D.	0.2	ug/l	109		70-130		
Chloroethane	N.D.	0.2	ug/l	115		70-130		
Chloroform	N.D.	0.1	ug/l	102		70-130		
Chloromethane	N.D.	0.2	ug/l	109		70-130		
2-Chlorotoluene	N.D.	0.1	ug/l	107		70-130		
4-Chlorotoluene	N.D.	0.2	ug/l	107		70-130		
1,2-Dibromo-3-chloropropane	N.D.	0.4	ug/l	96		70-130		
Dibromochloromethane	N.D.	0.1	ug/l	103		70-130		
1,2-Dibromoethane	N.D.	0.1	ug/l	100		70-130		
Dibromomethane	N.D.	0.1	ug/l	101		70-130		
trans-1,4-Dichloro-2-butene	N.D.	1.0	ug/l	123		70-130		
1,2-Dichlorobenzene	N.D.	0.1	ug/l	107		70-130		
1,3-Dichlorobenzene	N.D.	0.1	ug/l	108		70-130		
1,4-Dichlorobenzene	N.D.	0.1	ug/l	106		70-130		
Dichlorodifluoromethane	N.D.	0.2	ug/l	77		70-130		
1,1-Dichloroethane	N.D.	0.1	ug/l	99		70-130		
1,2-Dichloroethane	N.D.	0.1	ug/l	102		70-130		
1,1-Dichloroethene	N.D.	0.1	ug/l	81		70-130		
cis-1,2-Dichloroethene	N.D.	0.1	ug/l	99		70-130		
trans-1,2-Dichloroethene	N.D.	0.1	ug/l	98		70-130		
1,2-Dichloropropane	N.D.	0.1	ug/l	103		70-130		
1,3-Dichloropropane	N.D.	0.1	ug/l	103		70-130		
2,2-Dichloropropane	N.D.	0.2	ug/l	102		70-130		
1,1-Dichloropropene	N.D.	0.1	ug/l	98		70-130		
cis-1,3-Dichloropropene	N.D.	0.1	ug/l	101		70-130		
trans-1,3-Dichloropropene	N.D.	0.1	ug/l	103		70-130		
Ethyl Ether	N.D.	0.2	ug/l	103		70-130		
Ethyl Methacrylate	N.D.	0.1	ug/l	89		70-130		
Ethylbenzene	N.D.	0.1	ug/l	106		70-130		
Hexachlorobutadiene	N.D.	0.2	ug/l	101		70-130		

### \*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



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# Quality Control Summary

Client Name: Ciba Specialty Chemicals Corp Group Number: 1180663

Reported: 02/09/10 at 04:54 PM

# Laboratory Compliance Quality Control

	Blank	Blank	Report	LCS	LCSD	LCS/LCSD		
<u>Analysis Name</u>	Result	MDL	<u>Units</u>	%REC	%REC	<u>Limits</u>	RPD	RPD Max
Hexachloroethane	N.D.	0.1	ug/l	103		70-130		
2-Hexanone	N.D.	0.6	ug/l	90		70-130		
Isopropylbenzene	N.D.	0.1	ug/l	104		70-130		
p-Isopropyltoluene	N.D.	0.1	ug/l	110		70-130		
Methacrylonitrile	N.D.	1.0	ug/l	101		70-130		
Methyl Acrylate	N.D.	0.5	ug/l	98		70-130		
Methyl Iodide	N.D.	0.1	ug/l	85		70-130		
Methyl Methacrylate	N.D.	0.2	ug/l	90		70-130		
Methyl Tertiary Butyl Ether	N.D.	0.1	ug/l	99		70-130		
4-Methyl-2-pentanone	N.D.	0.6	ug/l	96		70-130		
Methylene Chloride	N.D.	0.3	ug/l	99		70-130		
Naphthalene	N.D.	0.2	ug/l	99		70-130		
Pentachloroethane	N.D.	0.1	ug/l	99		70-130		
n-Propylbenzene	N.D.	0.1	ug/l	107		70-130		
Styrene	N.D.	0.1	ug/l	103		70-130		
1,1,1,2-Tetrachloroethane	N.D.	0.1	ug/l	103		70-130		
1,1,2,2-Tetrachloroethane	N.D.	0.1	ug/l	103		70-130		
Tetrachloroethene	N.D.	0.1	ug/l	105		70-130		
Tetrahydrofuran	N.D.	2.0	ug/l	103		70-130		
Toluene	N.D.	0.1	ug/l	103		70-130		
1,2,3-Trichlorobenzene	N.D.	0.2	ug/l	101		70-130		
1,2,4-Trichlorobenzene	N.D.	0.2	ug/l	101		70-130		
1,1,1-Trichloroethane	N.D.	0.1	ug/l	100		70-130		
1,1,2-Trichloroethane	N.D.	0.1	ug/l	105		70-130		
Trichloroethene	N.D.	0.1	ug/l	100		70-130		
Trichlorofluoromethane	N.D.	0.2	ug/l	97		70-130		
1,2,3-Trichloropropane	N.D.	0.2	ug/l	105		70-130		
1,2,4-Trimethylbenzene	N.D.	0.1	ug/l	111		70-130		
1,3,5-Trimethylbenzene	N.D.	0.1	ug/l	107		70-130		
Vinyl Chloride	N.D.	0.1	ug/l	112		70-130		
m+p-Xylene	N.D.	0.2	ug/l	108		70-130		
o-Xylene	N.D.	0.1	ug/l	105		70-130		

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: EPA Method 524.2

Batch number: G100321AA 4-Bromofluorobenzene

	4-Bromofluorobenzene	1,2-Dichlorobenzene-d4			
5895790	77*	91			
5895791	76*	90			
5895792	76*	92			
5895793	76*	91			
5895794	75*	91			
Blank	84	90			
LCS	98	102			

### \*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



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# Quality Control Summary

Client Name: Ciba Specialty Chemicals Corp Group Number: 1180663

Reported: 02/09/10 at 04:54 PM

Surrogate Quality Control

Limits: 80-120 80-120

<sup>\*-</sup> Outside of specification

<sup>(1)</sup> The result for one or both determinations was less than five times the LOQ.

<sup>(2)</sup> The unspiked result was more than four times the spike added.

# Analysis Request/ Environmental Services Chain of Custody



For Lancaster Laboratories use only

Group# 1180663 Sample # 5895790 - 94

COC#

221914

Please print. Instructions on reverse side correspond with circled numbers.		
1 (5) Analyses Requested	For Lab Use Only	
Client: 4 Preservation Codes	SCR#: 85645 7 6048	
Project Manager: Porren McNichols P.O.#:	Preservation Codes H=HCI T=Thiosulfate N=HNO <sub>3</sub> B=NaOH S=H <sub>2</sub> SO <sub>4</sub> O=Other	
Name of state where samples were collected:		
Date Time g g g g g g g g g g g g g g g g g g g	Remarks	
RIVERUPSTR-012910 1/29/10 830 X X 3 X		
RIVERCHAL - 012910 1/29/10 845 X X 3 X		
RIVERCRIB - 012910 1/29/10 930 X X 3 X   RIVERFLUME - 012910 1/29/10 940 X X 3 X   X 3		
RIVERPLUME -012910 1/29/10 940 x x 3 x	·	
TB-01-012910 1/29/10 830 x x 2x		
	·	
Turnaround Time Requested (TAT) (please circle): Normal ) Rush Relinquished by: Date Time Received by:		
Turnaround Time Requested (TAT) (please circle): Normal Rush   Relinquished by:   Date   Time   Received by:   (Rush TAT is subject to Lancaster Laboratories approval and surcharge.)	Date Time (	
Date results are needed:  Relinquished by:  Date Time Received by:	Date Time	
Rush results requested by (please circle): Phone Fax E-mail  Phone #: Fax #:		
E-mail address: Relinquished by: Date Time Received by:	Date Time	
Data Package Options (please circle if required) SDG Complete?		
Type I (validation/NJ Reg) TX TRRP-13 Yes No Relinquished by: Date Time Received by: Type II (Tier II) MA MCP CT RCP	Date Time	
Time III (Padward NI)		
Type III (Reduced NJ) Site-specific QC (MS/MSD/Dup)? Yes No Type IV (CLP SOW)  Site-specific QC (MS/MSD/Dup)? Yes No Relinquished by:  Relinquished by:  Date Time Received by:	Date Time	



# Environmental Sample Administration Receipt Documentation Log

Client/i	Project:	Ciba		Shippin	g Contain	er Sealed: YE	s (NO)				
Date of	f Receipt:	1/29/10		Custody Seal Present *: YES NO							
	(3)	A 1215		* Custody seal Present *: YES NO  * Custody seal was intact unless otherwise noted in the discrepancy section							
Source		10									
Unpaci	ker Emp. No.	: 2316		Package: Chilled Not Chill							
Temperature of Shipping Containers											
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet ice (WI) or Dry ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments				
1	UNIZITIOS	1,300	T3	WI	4	B					
2											
3		The same of the sa	Con-								
4				and and the same a							
5				The state of the s	and the second section of the section o						
6			,			The same of the sa					
Number of Trip Blanks received NOT listed on chain of custody.											
Paperwork Discrepancy/Unpacking Problems:											
Sample Administration Internal Chain of Custody											
Name			Date	Time	11	Reason for Transfer					
Lay Lan			1/29/10	1415		Unpacking to Storcor  Place in Storage or (Entry)					
anny Miles			1/04/10	1450	Entry						
						Entry					

# Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
С	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	I	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**Inorganic Qualifiers** 

- ppb parts per billion
- **Dry weight**Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

9	lifier	(uu	9	 u	" 9	•

A B C D E	TIC is a possible aldol-condensation product Analyte was also detected in the blank Pesticide result confirmed by GC/MS Compound quatitated on a diluted sample Concentration exceeds the calibration range of the instrument	B E M N S	Value is <crdl, (msa)="" additions="" amount="" but="" calculation<="" control="" due="" duplicate="" estimated="" for="" injection="" interference="" limits="" met="" method="" not="" of="" precision="" spike="" standard="" th="" to="" used="" within="" ≥idl=""></crdl,>
J	Estimated value	U	Compound was not detected
N	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
Р	Concentration difference between primary and	*	Duplicate analysis not within control limits
	confirmation columns >25%	+	Correlation coefficient for MSA < 0.995
U	Compound was not detected		
X,Y,Z	Defined in case narrative		

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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#### ANALYTICAL RESULTS

Prepared for:

Ciba Specialty Chemicals Corp Oak Ridge Parkway Bldg 743 Toms River NJ 08753

732-914-2517

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

February 18, 2010

Project: Tysons Semi-Annual #0344010

Samples arrived at the laboratory on Friday, January 29, 2010. The PO# for this group is T0001567/T0216301. The group number for this submittal is 1180664.

 Client Sample Description
 Lancaster Labs (LLI) #

 GAC\_INF-012910 Grab Water
 5895795

 GAC\_EFF-012910 Grab Water
 5895796

 TB-02-012910 Water
 5895797

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC Ciba Specialty Chemicals Corp Attn: Fred Goelz

COPY TO

ELECTRONIC Ciba Specialty Chemicals Corp Attn: Dorren McNichols

COPY TO

ELECTRONIC Ciba Specialty Chemicals Corp Attn: Laura McMahon

COPY TO



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Questions? Contact your Client Services Representative Barbara A Weyandt at (717) 656-2300

Respectfully Submitted,

Chad Moline

Chad A. Moline Group Leader



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Sample Description: GAC INF-012910 Grab Water

LIMS#

COC: 221899 GAC INF

LLI Sample # WW 5895795 LLI Group # 1180664

PA

Project Name: Tysons Semi-Annual #0344010

Collected: 01/29/2010 10:30 by LAB Account Number: 04285

Submitted: 01/29/2010 12:15 Ciba Specialty Chemicals Corp

Reported: 02/18/2010 at 10:39 Oak Ridge Parkway

Discard: 03/05/2010 Bldg 743

Toms River NJ 08753

TYINF

CAT No.	Analysis Name			CAS Number	As Received Result		As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles :	SW-846	826	0B	ug/l		ug/l	
10903	Acetone			67-64-1	N.D.		6	1
10903	Benzene			71-43-2	6		0.5	1
10903	Bromodichloromethane			75-27-4	N.D.		1	1
10903	Bromoform			75-25-2	N.D.		1	1
10903	Bromomethane			74-83-9	N.D.		1	1
10903	2-Butanone			78-93-3	N.D.		3	1
10903	Carbon Disulfide			75-15-0	N.D.		1	1
10903	Carbon Tetrachloride			56-23-5	N.D.		1	1
10903	Chlorobenzene			108-90-7	18		0.8	1
10903	Chloroethane			75-00-3	N.D.		1	1
10903	2-Chloroethyl Vinyl B	Ether		110-75-8	N.D.		2	1
	2-Chloroethyl vinyl e preserve this sample		y not	be recovered	if acid was used	to		
10903	Chloroform			67-66-3	0.8		0.8	1
10903	Chloromethane			74-87-3	N.D.		1	1
10903	Dibromochloromethane			124-48-1	N.D.		1	1
10903	1,1-Dichloroethane			75-34-3	2		1	1
10903	1,2-Dichloroethane			107-06-2	N.D.		1	1
10903	1,1-Dichloroethene			75-35-4	N.D.		0.8	1
10903	trans-1,2-Dichloroeth	nene		156-60-5	N.D.		0.8	1
10903	1,2-Dichloropropane			78-87-5	1		1	1
10903	cis-1,3-Dichloroprope	ene		10061-01-5	N.D.		1	1
10903	trans-1,3-Dichloropro	opene		10061-02-6	N.D.		1	1
10903	Ethylbenzene			100-41-4	46		0.8	1
10903	2-Hexanone			591-78-6	N.D.		3	1
10903	4-Methyl-2-pentanone			108-10-1	N.D.		3	1
10903	Methylene Chloride			75-09-2	N.D.		2	1
10903	Styrene			100-42-5	N.D.		1	1
10903	1,1,2,2-Tetrachloroet	hane		79-34-5	N.D.		1	1
10903	Tetrachloroethene			127-18-4	5		0.8	1
10903	Toluene			108-88-3	92		0.7	1
10903	1,1,1-Trichloroethane	9		71-55-6	N.D.		0.8	1
10903	1,1,2-Trichloroethane	9		79-00-5	N.D.		0.8	1
10903	Trichloroethene			79-01-6	12		1	1
10903	Trichlorofluoromethan			75-69-4	N.D.		2	1
10903	1,2,3-Trichloropropar	ne		96-18-4	1,200		10	10
10903	Vinyl Chloride			75-01-4	2		1	1
10903	Xylene (Total)			1330-20-7	280		0.8	1



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Sample Description: GAC INF-012910 Grab Water

LIMS#

COC: 221899 GAC INF

LLI Sample # WW 5895795 LLI Group # 1180664

Project Name: Tysons Semi-Annual #0344010

Collected: 01/29/2010 10:30 Account Number: 04285 by LAB

Submitted: 01/29/2010 12:15 Ciba Specialty Chemicals Corp

Reported: 02/18/2010 at 10:39 Oak Ridge Parkway Discard: 03/05/2010

Bldg 743

Toms River NJ 08753

TYINF

#### General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/11 The temperature of the sample at collection was 13 C, the pH was 6.49and the specific conductance was 437 umhos/cm. This sample was collected following the protocol specified by each method listed in the laboratory sample analysis record.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

#### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	8260 Std. Water Master	SW-846 8260B	1	N100341AA	02/03/2010 16:07	Kerri E Koch	1
10903	8260 Std. Water Master	SW-846 8260B	1	W100361AA	02/06/2010 00:27	Emily R Styer	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N100341AA	02/03/2010 16:07	Kerri E Koch	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	W100361AA	02/06/2010 00:27	Emily R Styer	10



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Sample Description: GAC EFF-012910 Grab Water

LIMS#

COC: 221899 GAC EFF

LLI Sample # WW 5895796 LLI Group # 1180664

PΔ

Project Name: Tysons Semi-Annual #0344010

Collected: 01/29/2010 10:45 by LAB Account Number: 04285

Submitted: 01/29/2010 12:15 Ciba Specialty Chemicals Corp

Reported: 02/18/2010 at 10:39 Oak Ridge Parkway

Discard: 03/05/2010 Bldg 743

Toms River NJ 08753

TYEFF

CAT No.	Analysis Name		CAS Numbe	As Received r Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846	8260B	ug/l	ug/l	
10903	Acetone		67-64-1	N.D.	6	1
10903	Benzene		71-43-2	N.D.	0.5	1
10903	Bromodichloromethan	e	75-27-4	N.D.	1	1
10903	Bromoform		75-25-2	N.D.	1	1
10903	Bromomethane		74-83-9	N.D.	1	1
10903	2-Butanone		78-93-3	N.D.	3	1
10903	Carbon Disulfide		75-15-0	N.D.	1	1
10903	Carbon Tetrachloride	е	56-23-5	N.D.	1	1
10903	Chlorobenzene		108-90-7	N.D.	0.8	1
10903	Chloroethane		75-00-3	N.D.	1	1
10903	2-Chloroethyl Vinyl	Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl preserve this sample	ether ma	y not be recove	ered if acid was us	ed to	
10903	Chloroform		67-66-3	N.D.	0.8	1
10903	Chloromethane		74-87-3	N.D.	1	1
10903	Dibromochloromethan	e	124-48-1	N.D.	1	1
10903	1,1-Dichloroethane		75-34-3	N.D.	1	1
10903	1,2-Dichloroethane		107-06-2	N.D.	1	1
10903	1,1-Dichloroethene		75-35-4	N.D.	0.8	1
10903	trans-1,2-Dichloroe	thene	156-60-5	N.D.	0.8	1
10903	1,2-Dichloropropane		78-87-5	N.D.	1	1
10903	cis-1,3-Dichloropro	pene	10061-01-	5 N.D.	1	1
10903	trans-1,3-Dichlorop	ropene	10061-02-	6 N.D.	1	1
10903	Ethylbenzene		100-41-4	N.D.	0.8	1
10903	2-Hexanone		591-78-6	N.D.	3	1
10903	4-Methyl-2-pentanon	e	108-10-1	N.D.	3	1
10903	Methylene Chloride		75-09-2	N.D.	2	1
10903	Styrene		100-42-5	N.D.	1	1
10903	1,1,2,2-Tetrachloro	ethane	79-34-5	N.D.	1	1
10903	Tetrachloroethene		127-18-4	N.D.	0.8	1
10903	Toluene		108-88-3	N.D.	0.7	1
10903	1,1,1-Trichloroetha		71-55-6	N.D.	0.8	1
10903	1,1,2-Trichloroetha	ne	79-00-5	N.D.	0.8	1
10903	Trichloroethene		79-01-6	N.D.	1	1
10903	Trichlorofluorometh		75-69-4	N.D.	2	1
10903	1,2,3-Trichloropropa	ane	96-18-4	N.D.	1	1
10903	Vinyl Chloride		75-01-4	N.D.	1	1
10903	Xylene (Total)		1330-20-7	N.D.	0.8	1
	Semivolatiles	SW-846		ug/1	ug/l	_
04678	Acenaphthene		83-32-9	N.D.	0.9	1
04678	Acenaphthylene		208-96-8	N.D.	0.9	1
04678	Aniline		62-53-3	N.D.	0.9	1
04678	Anthracene		120-12-7	N.D.	0.9	1
04678	Benzidine		92-87-5	N.D.	19	1
04678	Benzo(a) anthracene		56-55-3	N.D.	0.9	1
04678	Benzo(a)pyrene		50-32-8	N.D.	0.9	1
04678	Benzo(b)fluoranthen	е	205-99-2	N.D.	0.9	1



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Sample Description: GAC EFF-012910 Grab Water

LIMS#

COC: 221899 GAC EFF

LLI Sample # WW 5895796 LLI Group # 1180664

Project Name: Tysons Semi-Annual #0344010

Account Number: 04285 Collected: 01/29/2010 10:45 by LAB

Submitted: 01/29/2010 12:15 Ciba Specialty Chemicals Corp

Reported: 02/18/2010 at 10:39 Oak Ridge Parkway

Discard: 03/05/2010 Bldg 743

Toms River NJ 08753

TYEFF

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Semivolatiles SW-846 83	270C	ug/l	ug/l	
04678	Benzo(g,h,i)perylene	191-24-2	N.D.	0.9	1
04678	Benzo(k)fluoranthene	207-08-9	N.D.	0.9	1
04678	Benzoic acid	65-85-0	N.D.	6	1
04678	Benzyl alcohol	100-51-6	N.D.	5	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.9	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	1
04678	Di-n-butylphthalate	84-74-2	N.D.	2	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.9	1
04678	4-Chloroaniline	106-47-8	N.D.	0.9	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.9	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.9	1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.	0.9	1
04678	2-Chloronaphthalene	91-58-7	N.D.	2	1
04678	2-Chlorophenol	95-57-8	N.D.	0.9	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	2	1
04678	Chrysene	218-01-9	N.D.	0.9	1
04678	Dibenz(a,h)anthracene	53-70-3	N.D.	0.9	1
04678	Dibenzofuran	132-64-9	N.D.	0.9	1
04678	1,2-Dichlorobenzene	95-50-1	N.D.	0.9	1
04678	1,3-Dichlorobenzene	541-73-1	N.D.	0.9	1
04678	1,4-Dichlorobenzene	106-46-7	N.D.	0.9	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.9	1
04678	Diethylphthalate	84-66-2	N.D.	2	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	3	1
04678	Dimethylphthalate	131-11-3	N.D.	2	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	19	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	0.9	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.9	1
04678	1,2-Diphenylhydrazine	122-66-7	N.D.	0.9	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	1
04678	Fluoranthene	206-44-0	N.D.	0.9	1
04678	Fluorene	86-73-7	N.D.	0.9	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.9	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.9	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
04678	Hexachloroethane	67-72-1	N.D.	0.9	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.9	1
04678	Isophorone	78-59-1	N.D.	0.9	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.9	1
04678	2-Methylphenol	95-48-7	N.D.	0.9	1
04678	4-Methylphenol	106-44-5	N.D.	2	1
	3-Methylphenol and 4-methylpher chromatographic conditions used for 4-methylphenol represents t	d for sample ana	alysis. The result reported		
04678	Naphthalene	91-20-3	N.D.	0.9	1
04678	2-Nitroaniline	88-74-4	N.D.	0.9	1
34070	2 WESTONIIIIIC	50 / <del>1</del> 1	11.2.	·.,	±



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Sample Description: GAC EFF-012910 Grab Water

LIMS#

COC: 221899 GAC EFF

LLI Sample # WW 5895796 LLI Group # 1180664

PΔ

Project Name: Tysons Semi-Annual #0344010

Collected: 01/29/2010 10:45 by LAB Account Number: 04285

Submitted: 01/29/2010 12:15 Ciba Specialty Chemicals Corp

Reported: 02/18/2010 at 10:39 Oak Ridge Parkway

Discard: 03/05/2010 Bldg 743

Toms River NJ 08753

TYEFF

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Semivolatiles SW-846 827	0C	ug/l	ug/l	
04678	3-Nitroaniline	99-09-2	N.D.	0.9	1
04678	4-Nitroaniline	100-01-6	N.D.	0.9	1
04678	Nitrobenzene	98-95-3	N.D.	0.9	1
04678	2-Nitrophenol	88-75-5	N.D.	0.9	1
04678	4-Nitrophenol	100-02-7	N.D.	9	1
04678	N-Nitrosodimethylamine	62-75-9	N.D.	2	1
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.9	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	2	1
	N-nitrosodiphenylamine decomposed diphenylamine. The result reporrepresents the combined total of	ted for N-nitro	sodiphenylamine		
04678	Di-n-octylphthalate	117-84-0	N.D.	2	1
04678	Pentachlorophenol	87-86-5	N.D.	3	1
04678	Phenanthrene	85-01-8	N.D.	0.9	1
04678	Phenol	108-95-2	N.D.	0.9	1
04678	Pyrene	129-00-0	N.D.	0.9	1
04678	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.9	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.9	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.9	1

The recovery of benzyl alcohol was outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and benzyl alcohol was within QC limits. Comparable data was observed between the two extractions. The data reported here is from the initial extraction of the sample.

#### General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/11 The temperature at the time of collection was 12 C, the pH was 6.44, the specific conductance was 470 umhos/cm.

This sample was collected following the protocol specified by each method listed in the laboratory sample analysis record.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

#### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10903	8260 Std. Water Master	SW-846 8260B	1	N100341AA	02/03/2010 16	:30 Kerri E Koch	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N100341AA	02/03/2010 16	:30 Kerri E Koch	1
04678	TCL SW846	SW-846 8270C	1	10034WAB026	02/15/2010 00	:22 Linda M	1
	Semivolatiles/Waters					Hartenstine	
00813	BNA Water Extraction	SW-846 3510C	1	10034WAB026	02/03/2010 15	:05 Timothy J	1



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Page 1 of 2

Sample Description: TB-02-012910 Water

LIMS#

COC: 221899 TB-02

LLI Sample # WW 5895797 LLI Group # 1180664

PΔ

Project Name: Tysons Semi-Annual #0344010

Collected: 01/29/2010 10:30 Account Number: 04285

Submitted: 01/29/2010 12:15 Ciba Specialty Chemicals Corp

Reported: 02/18/2010 at 10:39 Oak Ridge Parkway

Discard: 03/05/2010 Bldg 743

Toms River NJ 08753

As Received

TYTB2

CAT No.	Analysis Name		CAS Number	As Received Result	Method	Dilution Factor
NO.	•			Kesuic	Detection Limit	Factor
GC/MS	Volatiles	SW-846	8260B	ug/l	ug/l	
10903	Acetone		67-64-1	N.D.	6	1
10903	Benzene		71-43-2	N.D.	0.5	1
10903	Bromodichloromethane	<b>:</b>	75-27-4	N.D.	1	1
10903	Bromoform		75-25-2	N.D.	1	1
10903	Bromomethane		74-83-9	N.D.	1	1
10903	2-Butanone		78-93-3	N.D.	3	1
10903	Carbon Disulfide		75-15-0	N.D.	1	1
10903	Carbon Tetrachloride	<u> </u>	56-23-5	N.D.	1	1
10903	Chlorobenzene		108-90-7	N.D.	0.8	1
10903	Chloroethane		75-00-3	N.D.	1	1
10903	2-Chloroethyl Vinyl	Ether	110-75-8	N.D.	2	1
	2-Chloroethyl vinyl	ether may	y not be recovered	d if acid was used to	0	
	preserve this sample	· .				
10903	Chloroform		67-66-3	N.D.	0.8	1
10903	Chloromethane		74-87-3	N.D.	1	1
10903	Dibromochloromethane	9	124-48-1	N.D.	1	1
10903	1,1-Dichloroethane		75-34-3	N.D.	1	1
10903	1,2-Dichloroethane		107-06-2	N.D.	1	1
10903	1,1-Dichloroethene		75-35-4	N.D.	0.8	1
10903	trans-1,2-Dichloroet	hene	156-60-5	N.D.	0.8	1
10903	1,2-Dichloropropane		78-87-5	N.D.	1	1
10903	cis-1,3-Dichloroprop		10061-01-5	N.D.	1	1
10903	trans-1,3-Dichloropr	ropene	10061-02-6	N.D.	1	1
10903	Ethylbenzene		100-41-4	N.D.	0.8	1
10903	2-Hexanone		591-78-6	N.D.	3	1
10903	4-Methyl-2-pentanone	2	108-10-1	N.D.	3	1
10903	Methylene Chloride		75-09-2	N.D.	2	1
10903	Styrene		100-42-5	N.D.	1	1
10903	1,1,2,2-Tetrachloroe	thane	79-34-5	N.D.	1	1
10903	Tetrachloroethene		127-18-4	N.D.	0.8	1
10903	Toluene		108-88-3	N.D.	0.7	1
10903	1,1,1-Trichloroethar	ie	71-55-6	N.D.	0.8	1
10903	1,1,2-Trichloroethar	ie	79-00-5	N.D.	0.8	1
10903	Trichloroethene		79-01-6	N.D.	1	1
10903	Trichlorofluorometha	ine	75-69-4	N.D.	2	1
10903	1,2,3-Trichloropropa	ine	96-18-4	N.D.	1	1
10903	Vinyl Chloride		75-01-4	N.D.	1	1
10903	Xylene (Total)		1330-20-7	N.D.	0.8	1

#### General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/11

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.



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Sample Description: TB-02-012910 Water

LIMS#

COC: 221899 TB-02

LLI Sample # WW 5895797 LLI Group # 1180664

PΑ

Project Name: Tysons Semi-Annual #0344010

Collected: 01/29/2010 10:30 Account Number: 04285

Submitted: 01/29/2010 12:15 Ciba Specialty Chemicals Corp

Reported: 02/18/2010 at 10:39 Oak Ridge Parkway

Bldg 743

Toms River NJ 08753

TYTB2

Discard: 03/05/2010

#### Laboratory Sample Analysis Record

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
10903	8260 Std. Water Master	SW-846 8260B	1	N100341AA	02/03/2010 16:53	Kerri E Koch	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N100341AA	02/03/2010 16:53	Kerri E Koch	1



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### Quality Control Summary

Client Name: Ciba Specialty Chemicals Corp Group Number: 1180664

Reported: 02/18/10 at 10:39 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the

#### Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: N100341AA	Sample numbe	er(s): 589	5795-5895	797				
Acetone	N.D.	6.	uq/l	182		49-234		
Benzene	N.D.	0.5	uq/l	105		79-120		
Bromodichloromethane	N.D.	1.	uq/l	102		80-120		
Bromoform	N.D.	1.	ug/l	89		61-120		
Bromomethane	N.D.	1.	uq/l	85		40-137		
2-Butanone	N.D.	3.	ug/l	124		64-166		
Carbon Disulfide	N.D.	1.	ug/l	111		71-120		
Carbon Tetrachloride	N.D.	1.	uq/l	109		75-123		
Chlorobenzene	N.D.	0.8	uq/l	103		80-120		
Chloroethane	N.D.	1.	ug/l	88		49-129		
2-Chloroethyl Vinyl Ether	N.D.	2.	uq/l	91		74-121		
Chloroform	N.D.	0.8	uq/l	102		77-122		
Chloromethane	N.D.	1.	ug/l	86		60-129		
Dibromochloromethane	N.D.	1.	ug/l	103		80-120		
1,1-Dichloroethane	N.D.	1.	ug/l	103		79-120		
1,2-Dichloroethane	N.D.	1.	ug/l	103		70-130		
1,1-Dichloroethene	N.D.	0.8	ug/l	114		74-123		
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	108		80-120		
1,2-Dichloropropane	N.D.	1.	uq/l	102		78-120		
cis-1,3-Dichloropropene	N.D.	1.	ug/l	100		80-120		
trans-1,3-Dichloropropene	N.D.	1.	ug/l	98		79-120		
Ethylbenzene	N.D.	0.8	uq/l	103		79-120		
2-Hexanone	N.D.	3.	ug/l	96		65-136		
4-Methyl-2-pentanone	N.D.	3.	ug/l	105		70-121		
Methylene Chloride	N.D.	2.	ug/l	108		80-120		
Styrene	N.D.	1.	ug/l	87		80-120		
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	97		71-120		
Tetrachloroethene	N.D.	0.8	ug/l	104		80-121		
Toluene	N.D.	0.7	ug/l	106		79-120		
1,1,1-Trichloroethane	N.D.	0.8	uq/l	105		75-127		
1,1,2-Trichloroethane	N.D.	0.8	ug/l	99		80-120		
Trichloroethene	N.D.	1.	ug/l	103		80-120		
Trichlorofluoromethane	N.D.	2.	ug/l	100		64-129		
1,2,3-Trichloropropane	N.D.	1.	uq/l	99		80-120		
Vinyl Chloride	N.D.	1.	ug/l	94		59-120		
Xylene (Total)	N.D.	0.8	ug/l	104		80-120		
Batch number: W100361AA	Sample numbe	er(s) · 589	5795					
1,2,3-Trichloropropane	N.D.	1.	uq/1	101	107	80-120	6	30
1,2,3-111cmolopiopane	N.D.	1.	ug/ I	101	107	80-120	0	30
Batch number: 10034WAB026	Sample numbe	er(s): 589	5796					
Acenaphthene	N.D.	1.	ug/l	98		82-110		
Acenaphthylene	N.D.	1.	ug/l	83		80-122		
Aniline	N.D.	1.	ug/l	72		49-101		
Anthracene	N.D.	1.	ug/l	99		81-111		
Benzidine	N.D.	20.	ug/l	52		20-109		

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



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### Quality Control Summary

Client Name: Ciba Specialty Chemicals Corp Group Number: 1180664

Reported: 02/18/10 at 10:39 AM

#### Laboratory Compliance Quality Control

Blank   Blank   Blank   Report   LCS   LCSP   LCS				_			/		
Benzo(a) anthracene	2 2 1 27	Blank	Blank	Report	LCS	LCSD	LCS/LCSD	222	DDD 14
Benzo(a) pyrene						*REC		RPD	RPD Max
Benzo (b) fluoranthene   N.D.   1.   ug/1   83   66-125     Benzo (k) fluoranthene   N.D.   1.   ug/1   85   72-122     Benzo (k) fluoranthene   N.D.   1.   ug/1   85   72-122     Benzo (acid   N.D.   6.   ug/1   27   10-69     Benzy alcoho   N.D.   5.   ug/1   57*   66-97     Benzy alcoho   N.D.   5.   ug/1   50*   57-117     Benzy alcoho   N.D.   1.   ug/1   57*   66-97     Benzy alcoho   N.D.   1.   ug/1   57*   57*   13*     Benzy alcoho   N.D.   1.   ug/1   57*   66-97*     Benzy alcoho   N.D.   1.   ug/1   57*   57*   13*     Benzy alcoho   N.D.   1.   ug/1   58*   63-110     Benzy alcoho   N.D.   1.   ug/1   58*   63-110     Benzy alcoho   N.D.   1.   ug/1   58*   63-110     Benzy alcoho   N.D.   1.   ug/1   59*   64-120	· ·			٥,					
Benzo(s, h, i)perylene									
Benzoic acid   N.D.   1.   ug/1   85   72-122				-					
Benzyl acid									
Benzyl alcohol				J.,_					
A-Bromophenyl-phenylether   N.D.   1.   ug/1   94   77-115     Di-n-butylphthalate   N.D.   2.   ug/1   100   85-115     Di-n-butylphthalate   N.D.   2.   ug/1   100   85-115     4-Chloro-3-methylphenol   N.D.   1.   ug/1   98   70-123     4-Chloro-3-methylphenol   N.D.   1.   ug/1   84   28-122     bis(2-Chloroethoxy)methane   N.D.   1.   ug/1   84   28-122     bis(2-Chloroethoxy)methane   N.D.   1.   ug/1   98   77-108     bis(2-Chloroisoproyl)ether   N.D.   1.   ug/1   98   77-108     bis(2-Chloroisoproyl)ether   N.D.   1.   ug/1   98   77-108     bis(2-Chloroisoproyl)ether   N.D.   1.   ug/1   83   72-139     2-Chlorophenol   N.D.   2.   ug/1   87   54-132     2-Chlorophenol   N.D.   2.   ug/1   87   54-132     2-Chlorophenyl-phenylether   N.D.   2.   ug/1   93   32-112     Dibenz(a, h) anthracene   N.D.   1.   ug/1   93   32-112     Dibenz(a, h) anthracene   N.D.   1.   ug/1   96   83-108     1,2-Dichlorobenzene   N.D.   1.   ug/1   96   83-108     1,3-Dichlorobenzene   N.D.   1.   ug/1   88   63-110     1,4-Dichlorobenzene   N.D.   1.   ug/1   88   63-110     1,4-Dichlorobenzene   N.D.   1.   ug/1   83   65-113     3,3'-Dichlorobenzidine   N.D.   2.   ug/1   78   49-111     3,4-Dichlorobenzidine   N.D.   2.   ug/1   99   79-119     3,4-Dichlorobenzidine   N.D.   2.   ug/1   96   77-110     Diethylphthalate   N.D.   2.   ug/1   97   78-119     3,4-Dichlorobenzene   N.D.   1.   ug/1   96   64-122     3,4-Dichlorobenzene   N.D.   1.   ug/1   97   64-122     3,4-Dichlorobenzene   N.D.   1.   ug/1   98   66-110     3,4-Dichlorobenzene   N.D.   1.   ug/1   98   66-110     4-Bitroolume   N.D.   1.   ug/1   98   69-121     5,4-Dintroolume   N.D.   1.   ug/1   98   69-121     6,4-Dintr				-					
Butylefizylphthalate									
pi-n-butylphthalate         N.D.         2.         ug/l         100         85-115           4-Chloro-3 methylphenol         N.D.         1.         ug/l         84         28-122           bis (2-Chloroethoxy)methane         N.D.         1.         ug/l         98         70-108           bis (2-Chloroethyl)tether         N.D.         1.         ug/l         98         77-108           bis (2-Chlorophylpthen)ther         N.D.         1.         ug/l         87         54-132           2-Chlorophenol         N.D.         2.         ug/l         87         54-132           2-Chlorophenol         N.D.         1.         ug/l         93         82-111           Chrysene         N.D.         1.         ug/l         93         82-111           Dibenzofuran         N.D.         1.         ug/l         91         74-131           Dibenzofuran         N.D.         1.         ug/l         96         83-108           1,2-Dichlorobenzene         N.D.         1.         ug/l         85         67-108           1,2-Dichlorobenzene         N.D.         1.         ug/l         83         65-113           3,3-Dichlorobenzene         N.D.         1. </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
4-Chloro-3-methylphenol N.D. 1. ug/l 98 70-123 4-Chloro-aniline N.D. 1. ug/l 100 74-124 bis(2-Chloroethoxy)methane N.D. 1. ug/l 100 74-124 bis(2-Chloroethoxy)methane N.D. 1. ug/l 100 74-124 bis(2-Chloroethyl)ether N.D. 1. ug/l 83 77-108 bis(2-Chloroaphthalene N.D. 1. ug/l 83 72-139 2-Chloroaphthalene N.D. 1. ug/l 87 77-108 4-Chloroaphthalene N.D. 1. ug/l 97 77-108 4-Chlorophenol N.D. 1. ug/l 97 77-108 4-Chlorophenyl-phenylether N.D. 1. ug/l 97 77-108 4-Chlorophenyl-phenylether N.D. 1. ug/l 98 82-111 Chrysene N.D. 1. ug/l 98 82-111 Dibenz (a, n) anthracene N.D. 1. ug/l 98 82-112 Dibenz (a, n) anthracene N.D. 1. ug/l 96 83-108 1.4-Dilorobenzene N.D. 1. ug/l 96 83-108 1.4-Dilorobenzene N.D. 1. ug/l 96 83-108 1.4-Dilorobenzene N.D. 1. ug/l 85 67-109 1.4-Dilorobenzene N.D. 1. ug/l 85 67-113 1.3-Dilorobenzene N.D. 1. ug/l 85 67-113 1.3-Dilorobenzene N.D. 1. ug/l 89 64-111 2.4-Dilorobenzene N.D. 1. ug/l 89 64-111 2.4-Dilorobenzene N.D. 1. ug/l 89 64-112 2.4-Dilorobenzene N.D. 1. ug/l 91 80-109 Diethylphthalate N.D. 2. ug/l 91 80-109 Diethylphthalate N.D. 3. ug/l 96 72-110 Dimethylphthalate N.D. 3. ug/l 96 72-110 Dimethylphthalate N.D. 3. ug/l 98 64-120 2.4-Dinitrophenol N.D. 5. ug/l 102 64-122 2.4-Dinitrophenol N.D. 5. ug/l 104 81-115 1.2-Diphenylhydrazine N.D. 1. ug/l 104 81-115 1.2-Diphenylhydrazine N.D. 1. ug/l 104 81-115 1.2-Diphenylhydrazine N.D. 1. ug/l 104 86-116 Fluorene N.D. 1. ug/l 109 86-121 Fluorene N.D. 1. ug/l 109 86-121 Fluorene N.D. 1. ug/l 109 86-121									
### Action									
bis (2-Chloroethxy) methane         N.D.         1.         ug/1         100         74-124           bis (2-Chloroethyl) ether         N.D.         1.         ug/1         83         72-139           2-Chloronaphthalen         N.D.         1.         ug/1         87         54-132           2-Chlorophenol         N.D.         1.         ug/1         97         77-108           4-Chlorophenyl-phenylether         N.D.         1.         ug/1         97         77-108           4-Chlorophenyl-phenylether         N.D.         1.         ug/1         98         82-111           Chrysene         N.D.         1.         ug/1         98         82-112           Dibenz (a, h) anthracene         N.D.         1.         ug/1         96         83-108           1,2-Dichlorobenzene         N.D.         1.         ug/1         96         83-108           1,3-Dichlorobenzene         N.D.         1.         ug/1         88         63-110           1,4-Dichlorobenzene         N.D.         1.         ug/1         88         63-110           1,4-Dichlorobenzene         N.D.         1.         ug/1         88         63-110           1,4-Dichlorobenzene         N		N.D.							
bis (2-Chloroethyl) ether         N.D.         1.         ug/l         98         77-108           bis (2-Chloronaphthalene         N.D.         1.         ug/l         87         54-132           2-Chlorophenol         N.D.         1.         ug/l         97         77-108           4-Chlorophenyl-phenylether         N.D.         1.         ug/l         93         82-112           Chrysene         N.D.         1.         ug/l         98         82-112           Dibenzofuran         N.D.         1.         ug/l         96         83-108           1,2-Dichlorobenzene         N.D.         1.         ug/l         85         67-108           1,3-Dichlorobenzene         N.D.         1.         ug/l         85         67-108           1,3-Dichlorobenzidine         N.D.         1.         ug/l         83         65-113           3,3'-Dichlorobenzidine         N.D.         2.         ug/l         83         65-113           3,4'-Dichlorophenol         N.D.         1.         ug/l         91         80-109           Diethylphthalate         N.D.         2.         ug/l         95         75-119           2,4-Dimitrophenol         N.D.         3		N.D.	1.						
bis (2-Chloroisopropyl) ether         N.D.         1.         ug/l         83         72-139           2-Chlorophenol         N.D.         2.         ug/l         97         77-108           4-Chlorophenyl-phenylether         N.D.         1.         ug/l         93         82-111           Chryspene         N.D.         1.         ug/l         98         82-112           Dibenz (a, h) anthracene         N.D.         1.         ug/l         96         83-108           1,2-Dichlorobenzene         N.D.         1.         ug/l         96         83-108           1,3-Dichlorobenzene         N.D.         1.         ug/l         88         63-110           1,4-Dichlorobenzene         N.D.         1.         ug/l         88         63-110           1,4-Dichlorobenzidine         N.D.         1.         ug/l         88         63-110           1,4-Dichlorobenzidine         N.D.         2.         ug/l         78         49-111           2,4-Dimitroblenzidine         N.D.         2.         ug/l         78         49-111           2,4-Dinitroblenzidine         N.D.         2.         ug/l         95         75-119           2,4-Dinitroblenzidine         N									
2-Chlorophenol N.D. 2. ug/l 87 74-132 72-Chlorophenol N.D. 1. ug/l 97 77-108 4-Chlorophenyl-phenylether N.D. 1. ug/l 93 82-112 Dibenz(a, h) anthracene N.D. 1. ug/l 91 74-131 Dibenzofuran N.D. 1. ug/l 91 74-131 Dibenzofuran N.D. 1. ug/l 96 83-108 1,2-Dichlorobenzene N.D. 1. ug/l 85 67-108 1,3-Dichlorobenzene N.D. 1. ug/l 85 67-108 1,3-Dichlorobenzene N.D. 1. ug/l 85 67-108 1,3-Dichlorobenzene N.D. 1. ug/l 83 65-113 3,3'-Dichlorobenzene N.D. 1. ug/l 83 65-113 3,3'-Dichlorobenzene N.D. 1. ug/l 83 65-113 1,2-Dichlorobenzene N.D. 1. ug/l 83 65-113 1,2-Dichlorobenzene N.D. 2. ug/l 83 65-113 1,2-Dichlorobenzene N.D. 2. ug/l 83 65-113 1,2-Dichlorobenzene N.D. 2. ug/l 91 80-109 Diethylphthalate N.D. 2. ug/l 95 75-119 2,4-Diethylphthalate N.D. 2. ug/l 95 75-119 2,4-Dimitrophenol N.D. 3. ug/l 96 72-110 Dimitrophylphthalate N.D. 2. ug/l 83 25-121 4,6-Dinitro-2-methylphenol N.D. 5. ug/l 102 64-122 2,4-Dinitrophenol N.D. 20. ug/l 89 64-122 2,4-Dinitrophenol N.D. 1. ug/l 104 81-115 1,2-Diphenylhydrazine N.D. 1. ug/l 104 81-115 1,2-Diphenylhydrazine N.D. 1. ug/l 104 81-115 1,2-Diphenylhydrazine N.D. 1. ug/l 103 78-116 Dis(2-Ethylhexyl)phthalate N.D. 1. ug/l 104 86-116 Fluorene N.D. 1. ug/l 104 88-116 Hexachlorobenzene N.D. 1. ug/l 89 69-121 Isophorone N.D. 1. ug/l 90 74-117 2-Methylphenol N.D. 1. ug/l 86 69-110 N.D. 2. ug/l 86 69-120 4-Mitrophenol N.D. 1. ug/l 99 86-120 4-Mitrophenol N.D. 1.	bis(2-Chloroethyl)ether	N.D.	1.	ug/l	98		77-108		
2-Chlorophenyl-phenylether N.D. 1. ug/1 97 77-108 4-Chlorophenyl-phenylether N.D. 2. ug/1 93 82-111 Chrysene N.D. 1. ug/1 98 82-112 Dibenz (a, h) anthracene N.D. 1. ug/1 91 74-131 Dibenz (a) mintracene N.D. 1. ug/1 96 83-108 1,2-Dichlorobenzene N.D. 1. ug/1 85 67-108 1,3-Dichlorobenzene N.D. 1. ug/1 88 63-110 1,4-Dichlorobenzene N.D. 1. ug/1 88 63-110 1,4-Dichlorobenzene N.D. 1. ug/1 88 63-110 1,4-Dichlorobenzene N.D. 1. ug/1 88 65-113 3,3'-Dichlorobenzidine N.D. 2. ug/1 78 49-111 2,4-Dichlorophenol N.D. 1. ug/1 95 75-119 cit-tylpithelate N.D. 2. ug/1 95 75-119 cit-tylpithelate N.D. 2. ug/1 95 75-119 cit-tylpithelate N.D. 2. ug/1 83 25-121 4,6-Dinitro-2-methylphenol N.D. 2. ug/1 83 25-121 4,6-Dinitro-2-methylphenol N.D. 20. ug/1 89 64-120 2,4-Dinitrotoluene N.D. 1. ug/1 102 64-120 2,4-Dinitrotoluene N.D. 1. ug/1 104 81-115 1,2-Diphenylhydrazine N.D. 1. ug/1 101 85-115 1,2-Diphenylhydrazine N.D. 1. ug/1 103 78-116 bis (2-Ethylhexyl phthalate N.D. 2. ug/1 99 78-117 Fluoranthene N.D. 1. ug/1 104 86-116 Fluorene N.D. 1. ug/1 104 86-116 Fluorene N.D. 1. ug/1 98 82-113 Hexachlorobutadiene N.D. 1. ug/1 98 82-113 Hexachlorobutadiene N.D. 1. ug/1 98 82-113 Hexachlorobutadiene N.D. 1. ug/1 81 57-124 Hexachlorocyclopentadiene N.D. 1. ug/1 81 57-124 Hexachlorocyclopentadiene N.D. 1. ug/1 89 69-121 Indeno(1,2,3-cd) pyrene N.D. 1. ug/1 89 69-121 Indeno(1,2,3-cd) pyrene N.D. 1. ug/1 96 78-107  2-Methylphenol N.D. 2. ug/1 97 79-107  2-Methylphenol N.D. 1. ug/1 98 52-113 Indeno(1,2,3-cd) pyrene N.D. 1. ug/1 99 74-117  2-Methylphenol N.D. 1. ug/1 99 86-120  4-Nitrophenol N.D. 1. ug/1 99 86-120	bis(2-Chloroisopropyl)ether	N.D.		ug/l	83		72-139		
4-Chlorophenyl-phenylether   N.D.   2.   ug/l   93   82-112	2-Chloronaphthalene	N.D.	2.	ug/l	87		54-132		
Chrysene	2-Chlorophenol	N.D.	1.	ug/l	97		77-108		
Dibenz (a, h) anthracene	4-Chlorophenyl-phenylether	N.D.	2.	ug/l	93		82-111		
Dibenzefuran   N.D.   1.   ug/l   96   83-108   1,2-Dichlorobenzene   N.D.   1.   ug/l   85   67-108   1,3-Dichlorobenzene   N.D.   1.   ug/l   88   63-110   1,4-Dichlorobenzene   N.D.   1.   ug/l   83   65-113   3,3'-Dichlorobenzidine   N.D.   2.   ug/l   83   65-113   3,3'-Dichlorobenzidine   N.D.   2.   ug/l   78   49-111   2,4-Dichlorophenol   N.D.   1.   ug/l   95   75-119   10-111   75-119   75-11	Chrysene	N.D.	1.	uq/l	98		82-112		
Dibenzefuran   N.D.   1.   ug/l   96   83-108   1,2-Dichlorobenzene   N.D.   1.   ug/l   85   67-108   1,3-Dichlorobenzene   N.D.   1.   ug/l   88   63-110   1,4-Dichlorobenzene   N.D.   1.   ug/l   83   65-113   3,3'-Dichlorobenzidine   N.D.   2.   ug/l   83   65-113   3,3'-Dichlorobenzidine   N.D.   2.   ug/l   78   49-111   2,4-Dichlorophenol   N.D.   1.   ug/l   95   75-119   10-111   75-119   75-11	Dibenz(a,h)anthracene	N.D.	1.	ug/l	91		74-131		
1,2-Dichlorobenzene		N.D.	1.	ug/l	96		83-108		
1,3-Dichlorobenzene         N.D.         1. ug/l         88         63-110           1,4-Dichlorobenzidine         N.D.         2. ug/l         78         49-111           2,4-Dichlorophenol         N.D.         1. ug/l         91         80-109           Diethylphthalate         N.D.         2. ug/l         95         75-119           2,4-Dimethylphthalate         N.D.         3. ug/l         96         72-110           Dimethylphthalate         N.D.         2. ug/l         83         25-121           4,6-Dinitro-2-methylphenol         N.D.         5. ug/l         102         64-122           2,4-Dinitrotoluene         N.D.         1. ug/l         104         81-115           2,4-Dinitrotoluene         N.D.         1. ug/l         104         81-115           2,6-Dinitrotoluene         N.D.         1. ug/l         104         81-115           1,2-Diphenylhydrazine         N.D.         1. ug/l         104         81-115           1,2-Diphenylhydrazine         N.D.         1. ug/l         104         86-116           Fluoranthene         N.D.         1. ug/l         90         78-117           Fluorene         N.D.         1. ug/l         98         82-113	1,2-Dichlorobenzene	N.D.	1.		85		67-108		
1,4-Dichlorobenzene	1,3-Dichlorobenzene	N.D.	1.		88		63-110		
3.3'-Dichlorobenzidine									
2,4-Dichlorophenol       N.D.       1.       ug/l       91       80-109         Diethylphthalate       N.D.       2.       ug/l       95       75-119         2,4-Dimethylphenol       N.D.       2.       ug/l       96       72-110         Dimethylphthalate       N.D.       2.       ug/l       83       25-121         4,6-Dinitropenol       N.D.       2.       ug/l       102       64-122         2,4-Dinitrophenol       N.D.       2.       ug/l       89       64-120         2,4-Dinitrophenol       N.D.       1.       ug/l       104       81-115         2,6-Dinitrotoluene       N.D.       1.       ug/l       104       81-115         1,2-Diphenylhydrazine       N.D.       1.       ug/l       103       78-116         bis(2-Ethylhexyl)phthalate       N.D.       1.       ug/l       90       78-117         Fluorene       N.D.       1.       ug/l       90       78-117         Fluorene       N.D.       1.       ug/l       98       82-113         Hexachlorobenzene       N.D.       1.       ug/l       98       82-113         Hexachlorobentadiene       N.D.       1.									
Diethylphthalate N.D. 2. ug/l 95 75-119 2,4-Dimethylphenol N.D. 3. ug/l 96 72-110 Dimethylphthalate N.D. 2. ug/l 83 25-121 4,6-Dinitro-2-methylphenol N.D. 5. ug/l 102 64-122 2,4-Dinitrophenol N.D. 5. ug/l 102 64-122 2,4-Dinitrophenol N.D. 1. ug/l 89 64-120 2,4-Dinitrotoluene N.D. 1. ug/l 104 81-115 2,6-Dinitrotoluene N.D. 1. ug/l 103 78-116 1,2-Diphenylhydrazine N.D. 1. ug/l 103 78-116 bis (2-Ethylhexyl)phthalate N.D. 2. ug/l 90 78-117 Fluoranthene N.D. 1. ug/l 104 86-116 Fluorene N.D. 1. ug/l 104 86-116 Fluorene N.D. 1. ug/l 104 86-116 Hexachlorobutadiene N.D. 1. ug/l 104 86-116 Hexachlorobutadiene N.D. 1. ug/l 104 81-118 Hexachlorocyclopentadiene N.D. 1. ug/l 81 57-124 Hexachlorocyclopentadiene N.D. 1. ug/l 81 57-124 Hexachlorocyclopentadiene N.D. 1. ug/l 83 52-113 Indeno(1,2,3-cd)pyrene N.D. 1. ug/l 89 69-121 Isophorone N.D. 1. ug/l 96 78-107 2-Methylphenol N.D. 1. ug/l 96 78-107 2-Methylphenol N.D. 1. ug/l 96 78-107 2-Methylphenol N.D. 1. ug/l 97 77-107 2-Nethylphenol N.D. 1. ug/l 98 77-107 2-Nitroaniline N.D. 1. ug/l 98 77-107 2-Nitroaniline N.D. 1. ug/l 98 77-107 2-Nitroaniline N.D. 1. ug/l 99 86-120 4-Nitroaniline N.D. 1. ug/l 99 69-110	·								
2,4-Dimethylphenol				٥,					
Dimethylphthalate									
4,6-Dinitro-2-methylphenol       N.D.       5.       ug/l       102       64-122         2,4-Dinitrophenol       N.D.       1.       ug/l       89       64-120         2,4-Dinitrotoluene       N.D.       1.       ug/l       104       81-115         2,6-Dinitrotoluene       N.D.       1.       ug/l       101       85-115         1,2-Diphenylhydrazine       N.D.       1.       ug/l       103       78-116         bis(2-Ethylhexyl)phthalate       N.D.       2.       ug/l       90       78-117         Fluoranthene       N.D.       1.       ug/l       104       86-116         Fluorene       N.D.       1.       ug/l       98       82-113         Hexachlorobenzene       N.D.       1.       ug/l       98       82-113         Hexachlorobutadiene       N.D.       1.       ug/l       81       57-124         Hexachlorocyclopentadiene       N.D.       1.       ug/l       83       52-113         Indeno(1,2,3-cd)pyrene       N.D.       1.       ug/l       89       69-121         Isophorone       N.D.       1.       ug/l       96       78-107         2-Methylphenol       N.D.									
2,4-Dinitrophenol       N.D.       20.       ug/l       89       64-120         2,4-Dinitrotoluene       N.D.       1.       ug/l       104       81-115         2,6-Dinitrotoluene       N.D.       1.       ug/l       101       85-115         1,2-Diphenylhydrazine       N.D.       1.       ug/l       103       78-116         bis (2-Ethylhexyl)phthalate       N.D.       1.       ug/l       90       78-117         Fluoranthene       N.D.       1.       ug/l       98       82-113         Hexachloroene       N.D.       1.       ug/l       98       82-113         Hexachlorobutadiene       N.D.       1.       ug/l       81       57-124         Hexachlorocyclopentadiene       N.D.       1.       ug/l       83       52-113         Hexachlorocyclopentadiene       N.D.       1.       ug/l       83       52-113         Indeno (1,2,3-cd)pyrene       N.D.       1.       ug/l       83       52-113         Indeno (1,2,3-cd)pyrene       N.D.       1.       ug/l       89       69-121         Isophorone       N.D.       1.       ug/l       96       78-107         2-Methylaphthalene       <									
2,4-Dinitrotoluene       N.D.       1.       ug/l       104       81-115         2,6-Dinitrotoluene       N.D.       1.       ug/l       101       85-115         1,2-Diphenylhydrazine       N.D.       1.       ug/l       103       78-116         bis(2-Ethylhexyl)phthalate       N.D.       2.       ug/l       90       78-117         Fluoranthene       N.D.       1.       ug/l       104       86-116         Fluorene       N.D.       1.       ug/l       98       82-113         Hexachlorobenzene       N.D.       1.       ug/l       98       82-113         Hexachlorobutadiene       N.D.       1.       ug/l       81       57-124         Hexachlorocyclopentadiene       N.D.       1.       ug/l       81       57-124         Hexachlorocyclopentadiene       N.D.       1.       ug/l       89       69-121         Indeno(1,2,3-cd)pyrene       N.D.       1.       ug/l       89       69-121         Isophorone       N.D.       1.       ug/l       90       74-117         2-Methylphenol       N.D.       1.       ug/l       96       78-107         2-Methylphenol       N.D.       <				-					
2,6-Dinitrotoluene       N.D.       1.       ug/l       101       85-115         1,2-Diphenylhydrazine       N.D.       1.       ug/l       103       78-116         bis(2-Ethylhexyl)phthalate       N.D.       2.       ug/l       90       78-117         Fluoranthene       N.D.       1.       ug/l       104       86-116         Fluorene       N.D.       1.       ug/l       98       82-113         Hexachlorobenzene       N.D.       1.       ug/l       104       81-118         Hexachlorobutadiene       N.D.       1.       ug/l       81       57-124         Hexachlorocyclopentadiene       N.D.       1.       ug/l       81       57-124         Hexachlorocyclopentadiene       N.D.       1.       ug/l       83       52-113         Indeno(1,2,3-cd)pyrene       N.D.       1.       ug/l       83       52-113         Indeno(1,2,3-cd)pyrene       N.D.       1.       ug/l       89       69-121         Isophorone       N.D.       1.       ug/l       96       78-107         2-Methylphenol       N.D.       1.       ug/l       96       78-107         2-Methylphenol       N.D.									
1,2-Diphenylhydrazine       N.D.       1.       ug/l       103       78-116         bis(2-Ethylhexyl)phthalate       N.D.       2.       ug/l       90       78-117         Fluoranthene       N.D.       1.       ug/l       104       86-116         Fluorene       N.D.       1.       ug/l       98       82-113         Hexachlorobenzene       N.D.       1.       ug/l       104       81-118         Hexachlorobutadiene       N.D.       1.       ug/l       81       57-124         Hexachlorocyclopentadiene       N.D.       1.       ug/l       83       52-113         Hexachlorocethane       N.D.       1.       ug/l       83       52-113         Indeno(1,2,3-cd)pyrene       N.D.       1.       ug/l       89       69-121         Isophorone       N.D.       1.       ug/l       89       69-121         2-Methylnaphthalene       N.D.       1.       ug/l       96       78-107         2-Methylphenol       N.D.       1.       ug/l       85       64-101         4-Methylphenol       N.D.       1.       ug/l       96       77-107         2-Nitroaniline       N.D.       1.									
bis(2-Ethylhexyl)phthalate         N.D.         2.         ug/l         90         78-117           Fluoranthene         N.D.         1.         ug/l         104         86-116           Fluorene         N.D.         1.         ug/l         98         82-113           Hexachlorobenzene         N.D.         1.         ug/l         81         57-124           Hexachlorocyclopentadiene         N.D.         1.         ug/l         81         57-124           Hexachlorocyclopentadiene         N.D.         1.         ug/l         81         57-124           Hexachlorocyclopentadiene         N.D.         1.         ug/l         83         52-113           Indeno(1,2,3-cd)pyrene         N.D.         1.         ug/l         83         52-113           Indeno(1,2,3-cd)pyrene         N.D.         1.         ug/l         89         69-121           Isophorone         N.D.         1.         ug/l         90         74-117           2-Methylnaphthalene         N.D.         1.         ug/l         96         78-107           2-Methylphenol         N.D.         1.         ug/l         93         77-107           2-Nitroaniline         N.D.         1.<	· ·			-					
Fluoranthene N.D. 1. ug/l 104 86-116 Fluorene N.D. 1. ug/l 98 82-113 Hexachlorobenzene N.D. 1. ug/l 104 81-118 Hexachlorobutadiene N.D. 1. ug/l 81 57-124 Hexachlorocyclopentadiene N.D. 5. ug/l 47 10-118 Hexachlorocthane N.D. 1. ug/l 83 52-113 Indeno(1,2,3-cd)pyrene N.D. 1. ug/l 89 69-121 Isophorone N.D. 1. ug/l 89 69-121 Isophorone N.D. 1. ug/l 90 74-117 2-Methylnaphthalene N.D. 1. ug/l 96 78-107 2-Methylphenol N.D. 1. ug/l 85 64-101 4-Methylphenol N.D. 2. ug/l 85 64-101 4-Methylphenol N.D. 2. ug/l 66 61-103 Naphthalene N.D. 1. ug/l 93 77-107 2-Nitroaniline N.D. 1. ug/l 93 77-107 2-Nitroaniline N.D. 1. ug/l 94 74-113 4-Nitroaniline N.D. 1. ug/l 94 75-109 Nitrobenzene N.D. 1. ug/l 99 86-120 4-Nitrophenol N.D. 1. ug/l 99 86-120 4-Nitroso-di-n-propylamine N.D. 1. ug/l 95									
Fluorene N.D. 1. ug/l 98 82-113 Hexachlorobenzene N.D. 1. ug/l 104 81-118 Hexachlorobutadiene N.D. 1. ug/l 81 57-124 Hexachlorocyclopentadiene N.D. 5. ug/l 47 10-118 Hexachlorocychane N.D. 1. ug/l 83 52-113 Indeno(1,2,3-cd)pyrene N.D. 1. ug/l 89 69-121 Isophorone N.D. 1. ug/l 90 74-117 2-Methylnaphthalene N.D. 1. ug/l 96 78-107 2-Methylphenol N.D. 1. ug/l 85 64-101 4-Methylphenol N.D. 2. ug/l 85 64-101 4-Methylphenol N.D. 1. ug/l 93 77-107 2-Nitroaniline N.D. 1. ug/l 93 77-107 2-Nitroaniline N.D. 1. ug/l 94 74-113 4-Nitroaniline N.D. 1. ug/l 94 74-113 4-Nitroaniline N.D. 1. ug/l 94 75-109 2-Nitrophenol N.D. 1. ug/l 99 86-120 N.D. 1. ug/l 99 86-120 4-Nitrophenol N.D. 10 ug/l 34 16-78 N-Nitroso-di-n-propylamine N.D. 1. ug/l 95 69-110									
Hexachlorobenzene       N.D.       1.       ug/l       104       81-118         Hexachlorobutadiene       N.D.       1.       ug/l       81       57-124         Hexachlorocyclopentadiene       N.D.       5.       ug/l       47       10-118         Hexachloroethane       N.D.       1.       ug/l       83       52-113         Indeno(1,2,3-cd)pyrene       N.D.       1.       ug/l       89       69-121         Isophorone       N.D.       1.       ug/l       90       74-117         2-Methylnaphthalene       N.D.       1.       ug/l       96       78-107         2-Methylphenol       N.D.       1.       ug/l       85       64-101         4-Methylphenol       N.D.       2.       ug/l       66       61-103         Naphthalene       N.D.       1.       ug/l       93       77-107         2-Nitroaniline       N.D.       1.       ug/l       94       74-113         4-Nitroaniline       N.D.       1.       ug/l       94       75-109         2-Nitrophenol       N.D.       1.       ug/l       94       75-109         2-Nitrophenol       N.D.       1.       ug/l									
Hexachlorobutadiene       N.D.       1.       ug/l       81       57-124         Hexachlorocyclopentadiene       N.D.       5.       ug/l       47       10-118         Hexachlorocthane       N.D.       1.       ug/l       83       52-113         Indeno(1,2,3-cd)pyrene       N.D.       1.       ug/l       89       69-121         Isophorone       N.D.       1.       ug/l       90       74-117         2-Methylnaphthalene       N.D.       1.       ug/l       96       78-107         2-Methylphenol       N.D.       1.       ug/l       85       64-101         4-Methylphenol       N.D.       2.       ug/l       66       61-103         Naphthalene       N.D.       1.       ug/l       93       77-107         2-Nitroaniline       N.D.       1.       ug/l       94       74-113         4-Nitroaniline       N.D.       1.       ug/l       94       75-109         2-Nitrophenol       N.D.       1.       ug/l       94       75-109         4-Nitrophenol       N.D.       1.       ug/l       99       86-120         4-Nitrophenol       N.D.       1.       ug/l									
Hexachlorocyclopentadiene       N.D.       5.       ug/l       47       10-118         Hexachlorocthane       N.D.       1.       ug/l       83       52-113         Indeno (1, 2, 3-cd) pyrene       N.D.       1.       ug/l       89       69-121         Isophorone       N.D.       1.       ug/l       90       74-117         2-Methylnaphthalene       N.D.       1.       ug/l       96       78-107         2-Methylphenol       N.D.       1.       ug/l       85       64-101         4-Methylphenol       N.D.       2.       ug/l       93       77-107         2-Nitroaniline       N.D.       1.       ug/l       93       77-107         2-Nitroaniline       N.D.       1.       ug/l       94       74-113         4-Nitroaniline       N.D.       1.       ug/l       94       75-109         2-Nitrophenol       N.D.       1.       ug/l       94       75-109         2-Nitrophenol       N.D.       1.       ug/l       99       86-120         4-Nitroso-di-n-propylamine       N.D.       1.       ug/l       95       69-110									
Hexachloroethane       N.D.       1.       ug/l       83       52-113         Indeno(1,2,3-cd)pyrene       N.D.       1.       ug/l       89       69-121         Isophorone       N.D.       1.       ug/l       90       74-117         2-Methylnaphthalene       N.D.       1.       ug/l       96       78-107         2-Methylphenol       N.D.       1.       ug/l       85       64-101         4-Methylphenol       N.D.       2.       ug/l       66       61-103         Naphthalene       N.D.       1.       ug/l       93       77-107         2-Nitroaniline       N.D.       1.       ug/l       94       74-113         4-Nitroaniline       N.D.       1.       ug/l       94       75-109         Nitrophenol       N.D.       1.       ug/l       94       75-109         2-Nitrophenol       N.D.       1.       ug/l       99       86-120         4-Nitroso-di-n-propylamine       N.D.       1.       ug/l       95       69-110				-					
Indeno(1,2,3-cd)pyrene       N.D.       1.       ug/l       89       69-121         Isophorone       N.D.       1.       ug/l       90       74-117         2-Methylnaphthalene       N.D.       1.       ug/l       96       78-107         2-Methylphenol       N.D.       1.       ug/l       85       64-101         4-Methylphenol       N.D.       2.       ug/l       66       61-103         Naphthalene       N.D.       1.       ug/l       93       77-107         2-Nitroaniline       N.D.       1.       ug/l       94       74-113         4-Nitroaniline       N.D.       1.       ug/l       94       75-109         Nitrobenzene       N.D.       1.       ug/l       94       75-109         2-Nitrophenol       N.D.       1.       ug/l       99       86-120         4-Nitroso-di-n-propylamine       N.D.       10.       ug/l       34       16-78         N-Nitroso-di-n-propylamine       N.D.       1.       ug/l       95       69-110				٥,					
Isophorone									
2-Methylnaphthalene N.D. 1. ug/l 96 78-107 2-Methylphenol N.D. 1. ug/l 85 64-101 4-Methylphenol N.D. 2. ug/l 66 61-103 Naphthalene N.D. 1. ug/l 93 77-107 2-Nitroaniline N.D. 1. ug/l 100 83-116 3-Nitroaniline N.D. 1. ug/l 94 74-113 4-Nitroaniline N.D. 1. ug/l 86 59-100 Nitrobenzene N.D. 1. ug/l 94 75-109 2-Nitrophenol N.D. 1. ug/l 99 86-120 4-Nitrophenol N.D. 10. ug/l 34 16-78 N-Nitroso-di-n-propylamine N.D. 1. ug/l 95 69-110									
2-Methylphenol N.D. 1. ug/l 85 64-101 4-Methylphenol N.D. 2. ug/l 66 61-103 Naphthalene N.D. 1. ug/l 93 77-107 2-Nitroaniline N.D. 1. ug/l 100 83-116 3-Nitroaniline N.D. 1. ug/l 94 74-113 4-Nitroaniline N.D. 1. ug/l 86 59-100 Nitrobenzene N.D. 1. ug/l 94 75-109 2-Nitrophenol N.D. 1. ug/l 99 86-120 4-Nitrophenol N.D. 1. ug/l 34 16-78 N-Nitroso-di-n-propylamine N.D. 1. ug/l 95 69-110									
4-Methylphenol       N.D.       2.       ug/l       66       61-103         Naphthalene       N.D.       1.       ug/l       93       77-107         2-Nitroaniline       N.D.       1.       ug/l       100       83-116         3-Nitroaniline       N.D.       1.       ug/l       94       74-113         4-Nitroaniline       N.D.       1.       ug/l       86       59-100         Nitrobenzene       N.D.       1.       ug/l       94       75-109         2-Nitrophenol       N.D.       1.       ug/l       99       86-120         4-Nitroso-di-n-propylamine       N.D.       10.       ug/l       34       16-78         N-Nitroso-di-n-propylamine       N.D.       1.       ug/l       95       69-110									
Naphthalene       N.D.       1.       ug/l       93       77-107         2-Nitroaniline       N.D.       1.       ug/l       100       83-116         3-Nitroaniline       N.D.       1.       ug/l       94       74-113         4-Nitroaniline       N.D.       1.       ug/l       86       59-100         Nitrobenzene       N.D.       1.       ug/l       94       75-109         2-Nitrophenol       N.D.       1.       ug/l       99       86-120         4-Nitrophenol       N.D.       10.       ug/l       34       16-78         N-Nitroso-di-n-propylamine       N.D.       1.       ug/l       95       69-110									
2-Nitroaniline     N.D.     1.     ug/l     100     83-116       3-Nitroaniline     N.D.     1.     ug/l     94     74-113       4-Nitroaniline     N.D.     1.     ug/l     86     59-100       Nitrobenzene     N.D.     1.     ug/l     94     75-109       2-Nitrophenol     N.D.     1.     ug/l     99     86-120       4-Nitrophenol     N.D.     10.     ug/l     34     16-78       N-Nitroso-di-n-propylamine     N.D.     1.     ug/l     95     69-110									
3-Nitroaniline N.D. 1. ug/l 94 74-113 4-Nitroaniline N.D. 1. ug/l 86 59-100 Nitrobenzene N.D. 1. ug/l 94 75-109 2-Nitrophenol N.D. 1. ug/l 99 86-120 4-Nitrophenol N.D. 10. ug/l 34 16-78 N-Nitroso-di-n-propylamine N.D. 1. ug/l 95 69-110									
4-Nitroaniline     N.D.     1.     ug/l     86     59-100       Nitrobenzene     N.D.     1.     ug/l     94     75-109       2-Nitrophenol     N.D.     1.     ug/l     99     86-120       4-Nitrophenol     N.D.     10.     ug/l     34     16-78       N-Nitroso-di-n-propylamine     N.D.     1.     ug/l     95     69-110				-					
Nitrobenzene       N.D.       1.       ug/l       94       75-109         2-Nitrophenol       N.D.       1.       ug/l       99       86-120         4-Nitrophenol       N.D.       10.       ug/l       34       16-78         N-Nitroso-di-n-propylamine       N.D.       1.       ug/l       95       69-110				J.,_					
2-Nitrophenol       N.D.       1.       ug/l       99       86-120         4-Nitrophenol       N.D.       10.       ug/l       34       16-78         N-Nitroso-di-n-propylamine       N.D.       1.       ug/l       95       69-110									
4-Nitrophenol N.D. 10. $u\bar{g}/l$ 34 16-78 N-Nitroso-di-n-propylamine N.D. 1. $ug/l$ 95 69-110									
N-Nitroso-di-n-propylamine N.D. 1. ug/l 95 69-110									
N-Nitrosodimethylamine N.D. 2. ug/l 55 47-80									
	N-Nitrosodimethylamine	N.D.	2.	ug/l	55		47-80		

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



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### Quality Control Summary

Client Name: Ciba Specialty Chemicals Corp Group Number: 1180664

Reported: 02/18/10 at 10:39 AM

#### Laboratory Compliance Quality Control

	Blank	Blank	Report	LCS	LCSD	LCS/LCSD		
<u>Analysis Name</u>	Result	MDL	Units	%REC	%REC	<u>Limits</u>	RPD	RPD Max
N-Nitrosodiphenylamine	N.D.	2.	ug/l	118		67-136		
Di-n-octylphthalate	N.D.	2.	ug/l	80		68-128		
Pentachlorophenol	N.D.	3.	ug/l	94		53-110		
Phenanthrene	N.D.	1.	ug/l	99		83-112		
Phenol	N.D.	1.	ug/l	35		29-67		
Pyrene	N.D.	1.	ug/l	95		80-115		
1,2,4-Trichlorobenzene	N.D.	1.	ug/l	87		71-112		
2,4,5-Trichlorophenol	N.D.	1.	ug/l	92		79-107		
2,4,6-Trichlorophenol	N.D.	1.	ug/l	98		81-113		

#### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD <u>Limits</u>	<u>RPD</u>	RPD <u>MAX</u>	BKG <u>Conc</u>	DUP Conc	DUP <u>RPD</u>	Dup RPD <u>Max</u>
Batch number: N100341AA	Sample	number(s)	: 5895795	-58957	97 UNSP	K: P895981			
Acetone	136	136	52-139	0	30				
Benzene	139 (2)	150 (2)	80-126	2	30				
Bromodichloromethane	117	118	78-125	1	30				
Bromoform	98	96	60-121	2	30				
Bromomethane	89	97	38-149	9	30				
2-Butanone	118	116	57-138	1	30				
Carbon Disulfide	127	127	67-135	0	30				
Carbon Tetrachloride	128	128	81-138	0	30				
Chlorobenzene	196 (2)	249 (2)	87-124	2	30				
Chloroethane	104	102	51-145	2	30				
2-Chloroethyl Vinyl Ether	70	59	10-78	17	30				
Chloroform	118	119	81-134	1	30				
Chloromethane	100	101	67-154	1	30				
Dibromochloromethane	112	113	74-116	1	30				
1,1-Dichloroethane	120	121	84-129	1	30				
1,2-Dichloroethane	131	130	66-141	1	30				
1,1-Dichloroethene	130	134	85-142	2	30				
trans-1,2-Dichloroethene	124	126	87-126	2	30				
1,2-Dichloropropane	116	119	83-124	2	30				
cis-1,3-Dichloropropene	114	115	75-125	1	30				
trans-1,3-Dichloropropene	109	108	74-119	1	30				
Ethylbenzene	123	123	71-134	0	30				
2-Hexanone	99	101	55-127	1	30				
4-Methyl-2-pentanone	114	116	63-123	2	30				
Methylene Chloride	121*	119	79-120	1	30				
Styrene	101	101	60-140	0	30				
1,1,2,2-Tetrachloroethane	106	109	73-119	2	30				
Tetrachloroethene	120	120	80-128	0	30				
Toluene	124	123	80-125	0	30				
1,1,1-Trichloroethane	123	124	80-143	1	30				
1,1,2-Trichloroethane	109	111	77-124	1	30				
Trichloroethene	122	122	88-133	0	30				
Trichlorofluoromethane	121	120	73-152	1	30				
1,2,3-Trichloropropane	106	112	76-118	5	30				

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



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### Quality Control Summary

Client Name: Ciba Specialty Chemicals Corp Group Number: 1180664

Reported: 02/18/10 at 10:39 AM

#### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name Vinyl Chloride Xylene (Total)	MS %REC 111 120	MSD %REC 111 121	MS/MSD Limits 66-133 79-125	<u><b>RPD</b></u> 0	<b>RPD MAX</b> 30 30	BKG Conc	DUP Conc	DUP <u>RPD</u>	Dup RPD Max
Batch number: W100361AA 1,2,3-Trichloropropane	Sample 101	number(s)	: 5895795 76-118	UNSPK:	P8996	40			
	Sample 94 81 60 100 36 93 86 79 93 91 0* 47* 101 93 102 87 79 98 100 84 95 87 91 96 93 97 91 96 93 97 91 96 93 97 91 96 93 97 91 96 93 97 91 96 93 97 91 96 93 97 91 96 93	number(s) 96 83 60 100 36 92 84 82 88 91 34 52* 98 92 104 93 78 100 102 85 95 93 94 96 89 96 89 96 89 96 89 91 100 95 100 100	76-118 : 5895796 78-107 75-124 44-107 78-114 20-122 76-114 75-120 65-125 72-122 71-121 10-88 65-96 79-118 19-155 25-124 79-115 73-115 73-133 71-116 73-132 30-145 51-132 31-153 30-168 70-124 75-122	UNSPK: 2 2 0 0 2 1 3 4 5 0 200* 11 3 1 1 6 2 2 1 2 0 6 0 1 1 0 2 5 4 4 0 11 4 14 50* 2 2	P8959 30 30 30 30 30 30 30 30 30 30 30 30 30				
1,2-Diphenylhydrazine bis(2-Ethylhexyl)phthalate Fluoranthene Fluorene Hexachlorobenzene Hexachlorobutadiene Hexachlorocyclopentadiene Hexachloroethane	116* 89 105 96 100 81 56	113 90 108 96 105 82 57	78-115 72-122 73-110 71-123 77-122 68-123 10-130 50-116	3 1 3 0 4 1 1	30 30 30 30 30 30 30 30				
					-				

<sup>\*-</sup> Outside of specification

<sup>(1)</sup> The result for one or both determinations was less than five times the LOQ.

<sup>(2)</sup> The unspiked result was more than four times the spike added.



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#### Quality Control Summary

Client Name: Ciba Specialty Chemicals Corp Group Number: 1180664

Reported: 02/18/10 at 10:39 AM

#### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

	MS	MSD	MS/MSD		RPD	BKG	DUP	DUP	Dup RPD
Analysis Name	%REC	%REC	<u>Limits</u>	RPD	MAX	Conc	Conc	RPD	Max
Indeno(1,2,3-cd)pyrene	89	88	69-120	2	30				
Isophorone	91	92	58-114	0	30				
2-Methylnaphthalene	99	99	80-111	1	30				
2-Methylphenol	68	73	10-146	7	30				
4-Methylphenol	50	53	10-147	8	30				
Naphthalene	94	98	73-113	3	30				
2-Nitroaniline	99	104	76-121	5	30				
3-Nitroaniline	96	97	66-122	1	30				
4-Nitroaniline	90	91	57-104	1	30				
Nitrobenzene	99	96	61-124	3	30				
2-Nitrophenol	95	99	68-129	4	30				
4-Nitrophenol	32	41	10-109	24	30				
N-Nitroso-di-n-propylamine	98	98	58-122	0	30				
N-Nitrosodimethylamine	56	55	45-81	2	30				
N-Nitrosodiphenylamine	119	120	70-137	1	30				
Di-n-octylphthalate	80	79	58-137	2	30				
Pentachlorophenol	90	104	23-133	14	30				
Phenanthrene	99	98	72-121	0	30				
Phenol	36	37	10-83	2	30				
Pyrene	94	92	77-117	3	30				
1,2,4-Trichlorobenzene	89	90	69-118	2	30				
2,4,5-Trichlorophenol	88	94	45-136	6	30				
2,4,6-Trichlorophenol	81	90	37-147	11	30				

#### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 8260 Std. Water Master

Batch number: N100341AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzer
5895795	98	97	94	92
5895796	97	97	94	87
5895797	99	97	95	87
Blank	94	95	93	88
LCS	95	93	97	96
MS	95	94	96	96
MSD	97	96	96	95
T.imita.	80-116	77-113	80-113	78-113

Analysis Name: 8260 Master Scan (water) Batch number: W100361AA

Dibromofluoromethane		1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenze	
Blank	92	92	94	85	
LCS	91	88	96	90	
LCSD	92	90	96	89	

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



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### Quality Control Summary

Client Name: Ciba Specialty Chemicals Corp Group Number: 1180664

Reported: 02/18/10 at 10:39 AM

#### Surrogate Quality Control

MS	90	91	97	89
Limits:	80-116	77-113	80-113	78-113
	Name: TCL SW846 Semivola	tiles/Waters		
Batch numl	ber: 10034WAB026			
	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5
5895796	47	28	90	84
Blank	59	37	94	91
LCS	53	32	99	94
MS	51	33	89	95
MSD	53	34	96	95
Limits:	10-98	10-74	34-145	64-121
	2-Fluorobiphenyl	Terphenyl-d14		
5895796	85	65		
Blank	87	72		
LCS	93	72		
MS	90	70		
MSD	89	70		
Limits:	63-114	47-114		

<sup>\*-</sup> Outside of specification

<sup>(1)</sup> The result for one or both determinations was less than five times the LOQ.

<sup>(2)</sup> The unspiked result was more than four times the spike added.

### Analysis Request/ Environmental Services Chain of Custody



For Lancaster Laboratories use only

Acct. # 4285 Group# 118 0664 Sample #5895795-91 COC # Please print. Instructions on reverse side correspond with circled numbers. For Lab Use Only (5) Analyses Requested FSC: 85644 / SF #60486 \_\_\_\_Acct. #: \_\_\_<u>4285</u> **Preservation Codes** SCR#: **Preservation Codes** Project Name/#: Tyson Semi-annual PWSID #: \_\_\_ H=HCI T=Thiosulfate Project Manager: Dorran McNi Chok P.O.#: N=HNO<sub>3</sub> B=NaOH S=H<sub>2</sub>SO<sub>4</sub> O=Other Sampler: J. Alle Name of state where samples were collected: Time Sample identification Collected Collected Remarks GAC\_INF-012910 3 1045 GAC \_ EFF - 012910 12°C TB-02-012910 Turnaround Time Requested (TAT) (please circle): Normal ) Rush |Time (9 Relinquished by: Date Time | Received by: Date (Rush TAT is subject to Lancaster Laboratories approval and surcharge.) Date results are needed: Relinquished by: Time Received by: Date Date Time Rush results requested by (please circle): Phone Fax Phone #: Fax #: Relinquished by: Time Received by: E-mail address: Date Date Time Data Package Options (please circle if required) SDG Complete? TX TRRP-13 Type I (validation/NJ Reg) Yes No Relinquished by: Date Time | Received by: Date Time Type II (Tier II) MA MCP CT RCP Type III (Reduced NJ) Site-specific QC (MS/MSD/Dup)? Yes No Time Received by: Type IV (CLP SOW) Relinguished by (If yes, indicate QC sample and submit tripicate volume.) Date. Time Type VI (Raw Data Only) Internal COC Required? Yes / No

> Lancaster Laboratories, Inc., 2425 New Holland Pike, Lancaster, PA 17601 (717) 656-2300 Fax: (717) 656-6766 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.



# Environmental Sample Administration Receipt Documentation Log

Client	/Project:	Ciba	·. · · ·	Shippin	g Contain	er Sealed: YE	s NO		
Date o	of Receipt:	1/29/10		Custod	y Seal Pres	sent*: YE	s (NO)		
Time o	چ _ of Receipt:	A 1215							
Source	e Code:	10		* Custody	seal was inta liscrepancy se	act unless otherwise ection	noted in the		
Unpac	ker Emp. No.	: 2316		Packag	<b>e:</b>	Chilled	Not Chilled		
			Temperature of	Shipping Conta	iners				
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments		
1	U-129765	1,300	T8	WI	Y	B			
2									
3									
4 .									
5									
6									
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Issued by Dept. 6042 Management

# Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
С	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	I	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**Inorganic Qualifiers** 

- ppb parts per billion
- **Dry weight**Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

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A B C D E	TIC is a possible aldol-condensation product Analyte was also detected in the blank Pesticide result confirmed by GC/MS Compound quatitated on a diluted sample Concentration exceeds the calibration range of the instrument	B E M N S	Value is <crdl, (msa)="" additions="" amount="" but="" calculation<="" control="" due="" duplicate="" estimated="" for="" injection="" interference="" limits="" met="" method="" not="" of="" precision="" spike="" standard="" th="" to="" used="" within="" ≥idl=""></crdl,>
J	Estimated value	U	Compound was not detected
N	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
Р	Concentration difference between primary and	*	Duplicate analysis not within control limits
	confirmation columns >25%	+	Correlation coefficient for MSA < 0.995
U	Compound was not detected		
X,Y,Z	Defined in case narrative		

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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